

ARMAGEDDON ~ 2419 A.D. By Philip Trancis Nowlan

LSEWHERE 1 have set down, for what-

Century, my personal recollections of the

Now it occurs to me that my mensoirs of the 25th Century may have an equal interest 500 years from now—particularly in view of that using the specific from which I have seen the 25th Century, cutring it as I did, in one lean excess a san of 492

This statement requires elucidation. There are still many in the world who are not familiar with my mrispse experience. Five contrinse from now there may be many more, especially if civilization is faired to endure any worse commissions than those which have occurred between 1935 A.D. and the prepent from.

I should state therefore, that I, Amiliary Rogers, am, to far as I know, the only must allow whose normal span of sighty-me years of life has been special over a period of \$73 years. To be precise, I lived the first executivities years of my life between 1988 and 1927; the other fifty-two since 2419. The pay between these two, a period of nearly five hundred years, I spent in a

state of suspended animation, free from the ravages of latabelic processes, and without any apparent effect on my physical or mental faculties.

When I began my long sleep, man had just began his real consusts of the air.

in a subtlen series of transoceanic flights is simplaces driven by internal combination motors. He had barely begin to speculate on the possibilities of harmoning the possibilities of harmoning the percent as

sub-atomic forces, and had mount on our work or mode to further practical penetration into the field of ethereal pulsaritos than the promittive radio and they vision of that day. The United Status of America of America of the Company of the Compa

was the most powerful mation in the world, its political, firenesial, industrial and actentific influence being supreme; and in the arts also it was rapidly climbing into leadership. I swoke to find the America I know a total wreck to find Americans a buntled race in their own listed.

I awake to find the America I know a total wreck to find Americans a humbel size in their own lead, hiding in the drose forest that covered the shattered and leveled ruins of their once magnificent effice, desperately preserving, and straggling to develop in their screet retreats, the remnants of their culture and science—and the undviser flame of their strongs in the

pendence.

World domination was in the hands of Mongolius and the center of world puese lay in inland claim, with Americans one of the few races of monkind we subdated—and it must be admitted to fairness to the truth, not worth the treath of stabilities in the year of the Han Airness who must be writted as the Han Airness who must be Month Magnificent.

For their modeling the fairness in which the American the Month Magnificent.

carso lived, nor the resources of the vast territories these forests covered. With the perfection to which they had reduced the synthetic production of necesities and lucroires, their remarkable development of scientific processes and mechanical accomplishment of work, they had no consmit need for the forests, and no consmits desire for the enalwed habe of an unruly no consmits desire for the enalwed habe of an unruly

tree, size, and all they needed for their magnificently toutrieus and degraded scheme of cirrlination within, the walls of the fifteen cities of spartfuling glass they in had fluing skyward on the sites of ancient American extents, into the bowder of the earth underneath them.

nint and with relatively small surrounding areas of agricity; culture.

Complete domination of the air rendered communinia a cation between these centers a matter of case and safety, so
of Occasional destructive raids on the water lands were on considered all that was necessary to keep the "wish"

is any apparent enter one consistent an intar was notedary to acep inter "wait" exp. mon had just begun and pervent their becoming a memory to the East H and H are H and H and H are H are H and H are H and H are H and H are H and H are H are H and H are H and H are H and H are H and H are H are H and H a

which had been nearly ster-

He in scientific, social and

economic progress, had

softened and designificed the

It had likewise developed.

We have resely private a story in this magnetive that the simple feet and the simple f

If it ever of have reer trained become the protecting forconding sons and appear to be large of the forcets are
as a separal for trained by the separation of separatio

Hars.

insuperable obstacles, in the development and granding of the industrial and scientific resources, all in articlepation of that "Day of Floge" to which it had been looking forward for generations, when it would be strong countly to barst from the green chrysable of the forests, was into the upper all lanes and destroy the forests, was into the upper all lanes and destroy the forests, was into the upper all lanes and testing the state of the strong and the strong of the strong and t

tory of the Second War of Independence, for that has



Since upon the altracopy sixwplate, the battle looked as though it were bring deapht in daylight; have up a cloudy day, while the capticions of the souther arranged as finished of capta brilliance.

been recorded already by better historians than I am, Instead I shall confine roysell largely to the part I was fortunete cough to play in this struggle and in the events leading up to it. It all resulted from my interest in radioactive gases. During the bieter part of 1927 ms company, the Ameri-

During the latter part of 1927 my company, the American Radionative Gas Corporation, I and been keeping me hasp investigating reports of impassal phenomena observed in certain abandoned coal mines near the Wyering Valley, in Permylvann.

With rear negioners and a consider expirement of

With two assistants and a complete equipment of a scientific histraments, I began the exploration of a descried weeking in a montainous district, where several weeks before, a similar of mining engineers had reported traces of caracticle and what they believed to be radioactive gases. Their report was not without the way to be the description of the property of the completion, if was supported from the outset, for in our

examination of the upper levels of the mine, our instruments tolkened a vigorous radioactivity.

On the mining of December 15th, we descended to one of the lowest levels. To our surprise, we found no water there. Obviously it had drained off through some break in the strats. We noticed too that the rock in the solic walls of the shaft was soft, evi-

dently due to the radiactivity, and pieces crambided under fost rather early. We made our way continuity down the shaft, when suddrilly the retted inthers above us gave way.

I jumped shead, barely companions, who were conal and soft reeds, but my companions, who were everal nones behind me, were buried under is, and

I was trapped. Return was impossible. With my electric torolt. I explored the shaft to isk end, but could find no other way out. The air became increasingly difficult be reached, probably from the rapid occumulation of the radioactive gas. In a little while my senses reded and floot consolocution of refreshing circ. When I awales, there was a coul and refreshing circ. When I awales, there was a coul and refreshing circ. When I awales, there was a coul and explored the air and the other control that it is the control of the co

undoubtedly met metant death.

of suspended animation for something file: 500 years, My swakening, I figured out later, Ind been due to some shifting of the stream which reopered the shaft and clearet the atmosphere in the varieting. This must the shaft ever a pile of delvis, and stagger up the long incline to the month of the mile, where an entirely different world, overgrowen with a west forest and no veiled cape of the man labelation, are my cycas.

indine to the mouth of the mine, where an entirely difference work, overgrows with a vast forcet and no visible ups of human habitation, met my eyes. It stall mass over the days of mercal appropriate to I stall mass over the days of mercal appropriate to the control of the massing of it has been been appropriated to the control of the massing of the control of the massing. Termined the undambilat forces the above to cost. Had it not been for the necessity of improviding traps and crushe clubs with which to sky my food. I

believe I should have gone mad.

Suffici it to say, however, that I survived this psychic crisis. I shall begin my narrative proper with my first contact with Americans of the year 2419 A.D.

And Indivormedate of sunfara, and other possible and as 8.

source of radium compounds

CHAPTER 1
Floating Men
Y first glimpse of a human being of the 25th
Century was obtained through a portion of

Century was obtained through a portion so woodland where the trees were thirty seattered, with a dense forest beyond.

I had been wandering along aimtessly, and hopelessly,
musting over not strained fate, when I neticed a firme

AMAZING STORIES

that curricosely backed cut of the dense growth across the globe! I was absent to call our joyfully, but there was something forefive absent the figure that specermods nor. The beyl's attention (for it seemed to be a lad of fifteen or aisoteon) was centered tensely on the beaty growth of trees from which he had just emerged. Of grown, and were a highest-five cap of the same color. High around his wait he were a better this better the same of the High around his wait he were a better this best, which

builded up in the lack across the shortders, into sceneting of the proportions of a knapsack.

As I was taking in these details, there came a vivid fash and havey decements, like their of a hand greends, not far to the left of link. He threw up as arm and suggered a kin in a queer, golding way; then he remoered humen'd and slipped caracteristic stays; then the remoered three decements and slipped caracteristic stays are similar of the explosion, crountings staying, and still shear of the explosion, crountings staying, and still shear would raise this control of the stay for every the would raise this control of the stay of the stay of the stay of the would raise this control of the properties of the stay of

there was a sertific explosion, deeper in among the trees. It care to me then that he was shooting with some forms of pitol, through there was seeither flash me deceasation (room the musice of the waspon itself. After firing several times, be seemed to come to a subdence resolution, and torning in not general deceived, legged—so my amazement suffing through the size fatered in the sparring vastered trees in not a jump as it executed the subdence of the size of the size of the exercise that the size of the size of the size of the exercise thin a full fifty feet, although at the higher of his arc, he was not more than to so twaler legg from

it seems that the rediscretive gas had kept me in a state of temperated astrustion for something file 500 years.

My avalicating, I figured out later, had been die to fine did not eranh down as I expected him to do same shifting of the strata which respected the dahft. The only thing I could compace is with was a slow-may and electric the attempther in the working. This must be inclined, saltength I had never seet not in which the control of the properties of the control of the con

pp barinostal motions were registered at normal speed and only the vertical movements were abused down.

Due to my amprise, I suppose my beain did not function with its normal quickness, for I guest at the prese figure for several seconds before I saw the blood that decord out from under the tight green cap. Regaining I, my power of notion, I drauged him out of sight hade

courd out from under the tight green cap. Regaining my power of neiton, I dragged him out of sight hadof the big tree. For a few moments I bushed royal in an attempt to staurch the flow of bleed. The wome wai not a deep one. My companion was more dused than horn. But what of the pursues? I look the meapon from his grasp and examined in

hurriedy. It was not unlike the automatic pittal in which I was accustomed, except that it apparently fired with a button instead of a trigger. I inserted several fresh rounds of amtureiton into its magazine from up commanion; belt, as randyl as I could, for I sone bearl marder in it

ear us, the suppressed conversation of his pursuers.

There delicated a series of explosions round about

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feet below him. It blew him from his perch like a energied his of noner and he floated down to the ground, like some limp, dead thing, gently lowered by so mybible hand. The tree, its truck blown apart by the explosion, crashed down. There followed another series of explosions around to. Those sums we were usine made no sound in the firing, and not opponents were evidently as much at sea. as to my position as I was to theirs. So I made no

atterned to reply to their fire, contenting myself with keeping a sharp lookout in their general direction. And Very soon I saw a cautious movement in the top of another tree. Exposing myself as little as possible, it sized carefully at the tree trunk and fired sgain. A

shriek followed the explosion. I heard the tree crash down, then a grown There was rilence for a while. Then I heard a faint seems of househs swishing. I shot three times in its

direction, pressing the button as rapidly as I could Branches crashed down where my shells had exploded, but there was no hody. Then I saw one of them. He was starting one of those arranging lengs from the bough of one tree to another, about forty feet away.

I threw up my gun impulsively and fired. By now I had presen the feel of the weapon, and my aim was good I hit him. The "bullet" must have penetrated his body and exploded. For one noment I saw him flying through the air. Then the explosion, and he has varished. He never finished his loop. It was annihila

How many more of them there were I don't know But this must have been too much for them. Thru harmlessly, and shortly after I heard them swishing

and crashing away from us through the tree tons. Not one of them desended to earth. Now I had time to give some attention to my comteriou. She was I found a gul and not a boy. Desuite her bulky appearance, due to the peculiar belt

strapped around her body high up under the arms, she was very skender, and very pretty. There was a stream not far away, from which I Apparently the mystery of these long lears, the mentory-like shifty to junta from bough to bough, and of the bodies that floated gently down instead of falling, long to a same, where and how do you live? Why have you not found and joined a gang? How do you can? Where do you get your elethine? "I've been eating wild name for the past two weeks."

wondering how I could explain that it must be many hundred years old. In the end I saw I would have to tell my story as well as I could relection it together with my assumptions as to what had hannened. She listened reductive incredulously at first, but with more confidence as I went on. When I had finished, she sat thinking for a long "That's hard to believe," she said, "but I believe st." She looked me over with frank interest. "Were you married when you slipped into uncon-

back only as an invited exchange and I, being unmar-

ried, and no relation of yours, couldn't do the inviting."

CHAPTER II

The Forest Gangs

CHE gave me a brief outline of the very peculiar Social and economic system under which her peo-ple fixed. At least it seemed very peculiar from

my 20th Century viewpoint. I learned with suppresent that exactly 492 years had

passed over my head as I lay inconscious in the mine. William for that was her name, did not profess to be a historian, and so could give me only a sketchy outline of the wars that had been fought, and the manner in which such roffeal charges had come about. It seemed that another war had followed the First World

War, in which nearly all the European nations had

banded together to break the financial and industrial power of America. They succeeded in their purpose,

aciocumens down in that mine?" she asked me auddenly. I assured her I had never married. "Well, that simplifire matters" she continued. "You see if you were technically classed as a family man. I could take you

I explained, "and this clothing I-er-ab-." I paused,

everybody belong to a gong nowadaya?" "Naturally," she said, frowning. "If you don't be-

sound.) I laughed. "I'm not a gargster," I said. But she evidently did not understand this word. "I don't belong to any gang," I explained, "and never did. Does

some other more. What come do you belong to?" (She

voking by contrast with her own neathy efficient early. "Don't you understand what I mean by 'exchange?"

When the sirl came to, she regarded me as curiously as I did her, and promptly began to quis me. Her accent and intonation puzzled me a lot, but nevertheless we were able to understand each other feerly well, excent for certain words and phrases. I explained what had becomed while she low meconolisms and the thanked me simply for saving her life. "You are a strange exchange," she said, eving my clothing quinzically. Evidently she found it mirth pro-

lay in the belt. The thing was some sort of anti-gravity

belt that almost balanced the weight of the wearer,

thereby tremendously multiplying the propulsive power

of the leg muscles, and the lifting power of the arms.

pronounced it "ran," with only a sussicion of a nasal

Soviets, who had made a coalition with the Climest, to sweep over all Europe and reduce it to a state of chiest. America, industrially geared to world production and the world trade, collapsed economically, and there ensued is long period of stagnation and desperate attempts as concern reconstruction. But it was in-

sund a lette period of stagnation and desperate attempts at economic reconstruction. But it was learpossible to state off war with the Mongoliano, who by now had suffugued the Russians, and were alming at a world empire.

In about 2009, is seens, the conflict was finally precipitated. The Monogolaus, with overwhelming flest of great similar, and a science that for entertyinged that of erippied America, swept in over the Fasilics and Alamic Coasts, and down from Caracia, amelitating distinctive and the confliction of the confliction of distinctive that the confliction of models are seen and the models are conflicted to the confliction of coast. The resulted in a service described to coast. The resulted in a service described to

thingness"; i. e., into electronic vibrations. It destroyed all then known substances, from air to the most dense netisis and store.

They retiled down to the establishment of what because known as the Han dynasty in America, as a sert

case shown as the rain systany in America, as sort of province in their World Empire.

They make the case the state of the Americans. They ment that of life widt beaut. Only those gurvice who, covernment was at an end amore them. America who cover the case of the case o

had mareboan machinery and scientific process by which all difficult later was accomplished. Ubrisarty bey stopped their active search (or, and samplished out the whilety scattered groups of row swage Americans. So long as they remained hidden in their forests, and did not vestors some tine great classes. Then began the building of the new American civilsation. Furnities and intrivialues algebred tengther in class or "garge" for material protection. For early a centre published as numerical scattering the first processing they since a numerical scattering the first processing they since a numerical scattering the first processing they since a numerical scattering the first pro-

author. Further and institution gathered tegether in claim or "game" for metal protection. For most's a claim or "game" for metal protection. For most's a ring from place to place, in desports fact of the essay and constant Blaim or exist, and the trrells disungation ray. As the frequency of these risk determined on the company of the company of the six organizing teget lines which its many reports were similar to those of the utilities youncedoids of the Norma fixed lateract, occupy that imused of gluebring tocretian contenting of frequency of the company of the content of the company of the company of the certain contenting to five gathering to consultage teaches individuals. They flow strendly in the confidence to the forests, in green tests, resorting to canondage teaches. ters of the Hans. They tapped the male communication flows of the Hans, with could naturement as farst; better ones later on. They here very effort toward the redevelopment of sistence. For many generations the labored as nations, unknown exhalten of the flows, picking up their knowledge piccenteal, as fast as they were able to. During the earlier part of this period, there were many dearly wars fought between the various gangs, and occasional commercials the contractions of the con-

upon the Hans, followed by terribly puritive raids.

But as knowledge progressed, the sense of American
brotherhood redeveloped. Recipeccal arrangement
were made among the gangs over constantly increasing
areas. Trade developed to a certain extent, as between
one came and another. But the interchange of learned.

other learns more features than this of goods, as well as the hunfling of systellic processes developed. Within the gaze, as excessory was developed that was a compromise between distributal Berry and a mittary sometime. The right of private property was limited property and the property of the property of the property were many, as acresfly reprached. Simulation to addresses by civilly in the winning of varies into 6 Indentity and preregulates, and only in a very limited degree in the hope of owning earlying the minimal property of the property of the protection of the property of the property of the protection of the property of the property of the protection of the property of the property of the protection of the property of the property of the protection of the property of the property of the protection of the property of the property of the protection of the property of the property of the protection of the property of the property of the protection of the property of the property of the protection of the property of the property of the protection of the property of the property of the protection of the property of the property of the property of the protection of the property of the property of the protection of the property of the protection of the property of the property of the protection of the property of the property of the protection of the property of the property of the property of the protection of the property of the property of the property of the protection of the property of the property of the property of the protection of the property of the property of the property of the protection of the property of the property of the property of the protection of the property of the property of the protection of the property of the property of the protection of the property of the property of the protection of the property of the property of the protection of the property of the property of the property of the property of the protection of the p

sion, Lee military nafety and efficiency, belonged as a mutter of public interest is the consumity as a whole. In the monthine, through these transpressions, and the librar had evolved a inture execution, and with the librar had evolved a inture execution. As a surprise of the wind and the second of the second of the second of Americans were regarded as "wild sum of the second" or the wild sum, they treated them as beaut, and were or the wild sum, they treated them as beaut, and were were the second of the second of the second of the contract of the second of the second of the second of the way to the second of the second of the second of the way to the second of the second of the second of the water the second of the second of the second of the water the second of the second of the second of the water the second of the second of the second of the water the second of the second of the second of the water the second of the second of the second of the water the second of the second o

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powerful enough to rise and annitilate the Yellow Blight that lay over the continent. At the time of my awakening, the gangs were rather loosely organized, but were considering the establishment of a special military force, whose special business it world be to harry the Hans and bring down their

individuals. They freel strimtly in the open nix in the forests, in green tests, resorting to camoufage tactics that would conceil their persease from all edomeroise, that They dru underground factories and laboratories, that they might better be skilleded from the electrical decorber with the resolution of the property of the pro



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direction of the camps,

Life in the 25th Century E were delayed in starting for quite a while since I had to acquire a few crude ideas about the technique of airst them helts. I had been

Y the technique of using these belts. I had been sitting down, for instance, with the belt strapped about me, employing an ease similar to that of a remfershile amorbair; when I stood up with a natural exertion of muscular effort. I shot ten feet into the sir, with a wild institutive threading of arms and less that amused.

muscular effort, I shot ten feet into the air, with a wild instinctive thrashing of arms and legs that amused Wilma greatly.

But after some practice, I began to get the trick of gauging muscular effort to a minimum of vertical and a maximum of horizontal. The correct form, I found,

was in a measure comparable to that of skating. I found, also, that is forest work particularly the arms and hands could be used to great advantage in swinging along from branch to branch, so prolonging leaps almost inselinitely at times.

In going up the side of the mountain, I found that

any 20th Century muscles did have an advantage, in spite of lack of skill with the belt, and since the slopes were very sharp, and most of our lamp were upward, I could have distanced Wilma easily. But when we crossed the ridge and descended, she outstripped me with her superior technique. Choosing the second

slopes, she would crouch in the top of a free, and propel herself outward, librally diving until, with the loss of horizontal momentum, she would assume a more upright position and float downward. In this manner she would sometimes cover as much as a quarter of a mile in a studie lean, while I leaned and semulated

classify behind, thoroughly enjoying the novel sensation.

Half way down the mountain, we saw another greenclad figure leap out above the tree tops toward us. The three of us perched on an outcropping of rock from which a view for many miles around could be had.

while Wilma hartily explained her adventure and my presence to her fellow guard, whose mene wise Alan. I learned later that this was the modern form of Helen. "You want to report by phone then, don't you?" Alan took a compact packed about six inches square from a hole attended to be held and bouded it to

Wilma.

So far as I could see, it had no special receiver for the ear. Wilma merely threw back a lid, as though she were opening a book, and began to talk. The voice that came back from the machine was as saudible as her own.

She was queried closely as to the attack upon her, and at considerable limpth as so myself, and I could tell from the tone of that voice that its owner was not prepared to take me at my face value as readly as Wilma had. For that matter, neither was the other girl.

I could realize it from the suspicious gliences she threw my way, when she brought my attention was elevebere, and the susmore in which her hand howered constantly near her gun holster. Wilms was ordered to bring me in at once, and informed that another soont would take her place on the We had covered perhaps ten miles, in what stifl accumed so me a surprisitely easy fashton, when the Wana explained, that from here on we would have to keep to the ground. We were nearing the camps, she said, and there was always the postellity that some small blan normality, invalidate high in the sky, might earth film a south that the said of the said of the said of the general location of the charge. Whits a took one to the Secut offles, which served to

relieved to see us departing over the tree toos in the

Willias took me to the Scott office, which proved to be a small bridging of irregular slape, conforming to the trees around it, and substantially constructed of green sheet like material. I was received by the sasistant Scott Boos, who reported my arrival at once to the historical office, and to official be called the Psycho Boos and the History

Boss, who came in a few minutes bate. The attitude of all three men was at first policy but shepikel, and Wilmis's artifest advocacy seemed to amuse them secretly. For the next two hours I talked, explained and seasoned questions. I had to explain, in detail, the manner of my life in the 20th Century and my understanding of customs, habit, toutenes, caisence and the history of that period, and about developments in the centralists that that dapased. Had I given in a dispersor

I would have come through the examinazion with a way poor mark, for I was maible to give any answer to fully half of their questions. But before long I realised that the majority of these questions were designed as traps. Objects, of whose purpose I knew auching, as I ranged them do not, and I was watched lessely as I braided them. In the end I could see both assuments and belief length to show in the faces of my inquisitors, and at last

the Historical and Psychologous gazet opinity that the Historical and Psychologous agreed opinity that the could find no flaw in my story or reactions, and that unbelievable as it seemed, my story must be accepted as growine.

They took me at once to Big Boss Hart. He was a could not make a foother may wish a "rocker face." He would need the post in may wish a "rocker face." He would need the post in may wish a "rocker face."

have been the successful politicism even in the 20th occuracy.

They gave him a brief outline of my story and a proport of their examination of me. He made no comimment other than to no dhis acceptance of it. Then he

report of their examination of me. He made no comment other than to nod his acceptance of it. Then be turned to me.

"How does it feel?" he asked. "Do we look furny to you?"

to you?"
"A let strange," I admitted, "But I'm beginning to lose that led feeling, though I can see I have an awful lost to lose."

lose that dazed feeling, though I can see I have an awful lot to learn."
"Maybe we can learn some things from you, too," he said. "So you fought in the First World Way. Do

you know, we have very little left in the way of records of the details of that war, that is, the precise conditions under which it was fought, and the tection employed. We forgot many things during the Han tertree, and—well, I think you might have a lot of ideas worth thinking over for our raid masters. By the way

ARMACEDBON - 2419 A D now that you're here, and can't go back to your own All able-hodied men and women alternated in turncentrery so to menk what do you want to do? Veri'm week neededs between military and industrial service. welcome to become one of us. Or perhaps you'd just except these who were needed for household work like to visit with us for a while, and then look around Since working conditions in the plants and offices were stranger the other gazon. Marsha would like some of the ideal, and everybody thus had piecey of healthy outothers better. Don't make un your mind none. Wa'll not door activity in addition, the population was sturdy and you down as an exchange for a while. Let's sec. You active. Laziness was regarded as nearly the greatest and Bill Hearn ought to get along well together. He's of social offences. Hard work and reneral merit were Carm Boss of Number 34 when he isn't arting as variously rewarded with extra privileges, advancement Raid Boss or Scout Boss. There's a vacancy in his to positions of authority, and with various items of carro. Stay with him and think things over as long as personal confinerat for convenience and luxury you want to. As soon as you make up your mind to In leisure moments, I got great enjoyment from sitanothing let me know." ting outside the dwelling in which I was quartered with We all shook hands, for that was one custom that Bill Hears and ten other men, watching the occasional had not died out in five hundred years, and I set out passers-by, as with leisurely, but swift movements, they swong up and down the forest trail, rising from the with Bill Hearn. Bill like all the others, was clad in green. He was ground in long almost-horizontal leaps, occasionally a big man. That is, he was about my own height, five awinging from one convenient branch overhead to another before "sliding" back to the ground farther oniest eleven. This was considerably above the average now, for the race had lost something in stature, it Normal traveling pace, where these trails were straight steeped, through the vicintitudes of five centuries. Most except, was about twenty notes an hour. Such things of the women were a bit below five feet, and the men as automobiles and railroad trains (the memory of them only a trifle above this height not more than a month old in my mind) seemed inex-For a period of two weeks Bill was to confine himself. pressibly silty and futile compared with such convento came duties, so I had a good chance to familiarize sence as these belts or jumpers offered. mivelf with the community life. It was not easy. There Bill suggested that I wanter around for arreral days. were so many marvels to shooth. I never cessed to from plant to plant, to observe and study what I could. wander at the strange combination of rustic social life The entire community had been appropried of my comand feverish industrial activity. At least, it was ing, my rating as an "exchange" reaching every building strange to me. Fire in my conscience industrial deand post in the community, by means of ultronic broadvelopment meant crowded cities, tenements, saved cast. Everywhere I was welcomed in an interrested and streets, profusion of vehicles, noise, hurrying men and helpful spirit. women with strained or drill faces, vast structures and I visited the plants where ultronic vibrations were omate mobile works incluted from the other and through slow processes Here, however, was runtic simplicity, apparently isobuilt up into sub-electrome, electrome and atomic forms lated families and groups, living in the heart of the into the two great synthetic elements, ultron and inforest, with a quarter of a mile or more between bruses. ertron. I learned something, superficulty at least, of halds, a total absence of counts, no means of corresthe processes of combined chemical and mechanical sesuce other than the belts called jumpers, almost contion through which were produced the various forms stantly worn by everybody, and an occasional rocket of synthetic cloth. I watched the manufacture of the ship, used only for longer journeys, and underground machines which were used at locations of construction about or factories that were to my much more like to produce the various forms of buildier sesterials aboutories and envine rooms; many of them were ex-But I was particularly interested in the municipus plants cavafform as deep or mines, with well finished fighted and comfortable interiors. These neonle were adents Ultron is a solid of great molecular density and modat carrooffage against air charrystion. Not only would erate elasticity, which has the property of being 100 their activity have been unsuspected by an airthip passpercent conductive to those pursations known as light. electricity and heat. Since it is completely permeable creery who mucht barrier to dress through the severn to Eithe vibrations, it is therefore afradatale invisitor and non-reflective. Its magnetic transvers is almost of the unper broaches to the floor of the forest. The ranne or household structures, were all irregular in but not quite, 100 percent also. It is therefore vers share and of colors that bleuded with the meat trees brave under commit conditions but exercisely resource among which they were hubben give to the reactor or action with your more such as the There were 724 dwellisms or "camps" among the Hans use as "love" for their pirchins. 'Tuertron is the second great triumph of American Wyomings, located within an area of about fifteen some miles. The total consistion was \$.688, every trearch and experimentation with ultranic forces. It man, warran and child, whether member or "evchange," was developed test a few years before my awakening being finted in the abandoned more. It is a synthetic element, built The objects were widely continued through the terriborus up, through a complicated heterodyning of obvious also. Nowhere was snything bles congression permitted. pulsations, from "infra belanced" subjectic forms. It is So far as possible, families and individuals were ascompletely facet to both electric and magnetic forces in sirped to living quarters, not too far from the plants or all the orders above the advance: that is to say, the outoffices in which their most few electronic, the electronic, the atomic and the malecular.

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and Sight imminging man it. It does not feel cold to the touch of course, since it will not absorb the heat of the hand. It is a solid very dense in molecular structure despite its lack of weight, of error strength and considerable elegicity. It is a perfect should against the dointegrator rays

To consequence it has a number of amazing and sales.

able properties. One of these is the total lack of successit.

Another is a total lack of beat. It has no molecular

vibration whatever. It reflects 100 percent of the heat

Rocket purs are very simple conprivances so for as the mechanism of taunching the bullet is concerned. They are simple light tubes, closed at the rear end, with a trigger actuated pin for piercing the thin skin at the base of the cortridge. This percing of the skin starts the entire contrides boxes the tabe up-

chemical and atomic reaction. The



der its coan recover at a week case initial velocity, just however, umoral this as much as we could

the was a god of studious and re-Beeting turn of mind. She never are of the 20th Century. The others of the community. however, seemed to find our friendship a bit amusing. It seemed that Wilma had a reputation for being cold sourced the opposite one and co others, not being able to appreciate some of her fine qualifies as I did.

arisinterpreted her amitude, much to their com defials. Witnes and I

CHAPTER IV

A Hun Air Raid MIERE was a girl in Wilms's camp romed Gerdi Mases, with whom Bill Hearn was desperately in love, and the four of us used to go around a lot topother Confi and a distinct tree. Whereas William

done otherwise than I did in that matter, and most of

all my own appreciation of the fact that she had not

found it as difficult as the others to believe my story,

operated in the same direction. I could easily invaring

unusual inscrest in me. In the first place, I was her personal discovery. In the second,

It was natural enough too, that she should feel an

one store must have seemled incredible.

corructs to insure accuracy of aim; so the tube does not have to be of heavy construction. The bullet increases in velocity as it goes. It may be solid or explosive. It may explode on contact or on time, or a combination of these two. Bill and I talked mostly of weapers, military tactics and strategy. Strangely enough he had no idea whatour of the constitution of the barrage, though the tremendous effect of a "currain of fire" with such high-explosive projectiles as these modern rocket guns used was obvious to me. But the barrage idea, it seemed, has lowed the First World War, and in the poculiar querilla tactics developed by Americans in the later period of

operations from the ground against Hanairstope, and in the even ware which not? a few mencement con ! learned, had been almost continuous. "I wonder," said Bill one day, "If we couldn't work un some form of burrage to surice on the Bad Bloods. The Big Boss troll me today that he's been in comprovince with the other parcy, and all are acreed that the Bad Bloods might as well be wiped our for good. That attempt on Wilma Deering's life and their exident desire to make trouble source the paners has stirred up every community east of the Alleghanies. The Rena says that more of the others will object if we so after them. So I impains that before long as will

Now show me again how you worked that husiness in the Argunne forest. The conditions ought to be pretty much the same." I wrote over it with him in detail, and cradually we worked out a modified plan that would be better adapted "It will be easy," Bill multed, "I'll slide down and

talk it over with the Boss tomorrow." During the first two weeks of my stay with the Wyomings, Wilma Decring and I saw a great deal of each other. I naturally felt a little closer friendship for her, in view of the fact that she was the first human being I may after walking from my long aleen; her appropriation of my envior her life though I could not have had the usual dark brown hair and hazel eyes that marked nearly every member of the community, Gerdi had red built blue eyes and very fair skin. She has hern dead more years now but I remember has visible became she was a throwback in physical appearance to a certain 20th Century type which I have found very of m were encored one day in a discussion of this were point, when I obtained my first experience of a Han We were sixting both on the side of a hill overleeking the valley that termed with burrow activity, invisible

beneath its blanket of foliage. The other three, who know of the Irish has vacuely and indefinitely, as a true on the other side of the plobe. which like ourselves, had succepted as maintaining a precarious and fugicive existence in rebellion against the Monmhan domination of the earth, were listening with interest to my theory that Genil's appearing of several hundred years are must have been Irish. I explained that Gerdi was on Irish type, evidently a throwback, and that her surrame might well have been McMann.

or McMahan, and still more accountly "east Mathebara, hain." They were interested too in my surmise that "Grrdi" was the same name as that which had been "Gerty" or "Gertrude" in the 20th Century. In the middle of our discussion, we were startled by an alarm market that burst high in the air, for to the north inconding a call of red species that drifted like

a cloud. It was followed by others at scattered points in the Mostlesse ster.

"A Han raid?" Bill exclaimed in amazement. "The first in seven wears!"

ARMAGEDDON - 2419 A.D. "Maybe it's just one of their shins off its course." daylight (and still faintly visible to the human eye at 1 vertured night). Actually, I had been informed by my instruc-"No," said Wilms in some agitation. "That would tors, there were two rays; the visible one generated by the ship's argumentus, and directed toward the ground e green rackets. Red means only one thing. Tony, They're aweeping the countryside with their dis beams. as a beam of "carrier" impulses; and the true repeller Can you see anything, Bill? ray, the complement of the other in one sense, induced by the action of the "carrier" and reacting in a concen-"We had better get under cover," Gerdi said netyouth. "The four of us are bunched here in the open. trating unward direction from the mass of the cartle. For all we know they may be twelve miles up, out of becoming successively electronic, atomic and finally sight, set looking at us with a prosecto"." molecular, in its nature, according to various ratios of distance between earth mass and "carrier" source. Bill had been sweeping the horizon hostily with his glass, but apparently saw nothing until, in the last analysis, the ship itself actually is "We had better scatter, at that," he said finally. "It's supported on an upward rushing column of air, much orders, you know. See !" He sointed to the valley. like a hall continuously supported on a fountain let. Here and there a time burnan figure shot for a mo-The raster neared with incredible speed. Its rays ment above the foliage of the trectors. were both slanted astern at a sharp angle, so that it slid "That's had" Wilms commented as she ensured the forward with termendous inconentum. impers. "No less than fifteen people visible, and all The ship was operating two disintegrator rays. clearly radiating from a central point. Do they want though only in a casual, intermittent fashion. But whento give away our location?" ever they fleshed downward with Ninding brilliance forest, rocks and ground melted instantaneously into The standard orders covering air raids were that the population was to scatter individually. There should nothing, where they played upon them. be no grouping, or even pairing, in view of the destruc-When later I inspected the scars left by these rays turness of the disinterrator rays. Experience of resu I found them some five feet deep and thirty feet wide, the exposed surfaces being lava-like in texture, but of erations had proved that if this were done, and everybody remained hidden beneath the tree screens, the a pale, iridescent, greenish hae Heat would have to sween mile after mile of territory. No systematic use of the rays was made by the ship. foot by foot, to catch more than a small percentage of however, until it reached a noise over the center of the community, the valley-the center of the community's activities. There it came to a sudden stop by shooting its repellor Gersli, however, refused to leave Bill, and Wilms. developed an equal obsticacy against quitting my side. brams sharply forward and easier them back gradually I was incorperenced at this sort of thing, she explained. to the vertical, holding the ship floating and motionless. Then the work of destruction began systematically. quite ignoring the fact that she was too; she was only Back and forth traveled the destinging rays, ploughthirteen or fourteen years old at the time of the last air raid. ing parallel furrows from hillside to hillside. We However, since I could not argue her out of it, we gasped in dismay, Wilms and I, as time after time we legged together short a granter of a mile to the right while Bill and Gerdi disappeared down the hillside or plants were located. among the trees. "This is awful" she mouned, a terrified question in her eyes. "How could they know the location so exactly, Wilms and I both wanted a point of vantage from which we might overlook the valley and the sky to the Tony? Did you see? They were never in doubt. They North, and we found it scar the 100 of the ridge, where, stalled at a predetermined spot-and-and it was exprotected from visibility by thick branches, we could settly the right spot " look our between the tree trunks, and get a good view We did not talk of what might happen if the rays of the valley. were turned in our direction. We both knew, We No more rockets went up. Except for a few of those would simply disintegrate in a split second into mere warning red clouds, drifting latily in a blue sky, there scattered electronic vibrations. Strangely enough, in was no visible indication of man's tout or oresent was this self-reliant pirt of the 25th Century, who clure existence anywhere in the sky or on the ground. to me, a relatively primitive man of the 20th, less familiar than she with the thought of this terrifying Then Willem erioned my arm and sointed. I saw it; away off in the distance; loolong like a plantom possibility, for moral support, dirigible sirship, in its cost of low-visibility paint, a We knew that many of our companious must have been wholived into absolute moneystateure before our "Seven thousand feet up." Wilms whisnered, emucheyes in these few moments. The whole thing paralyzed ing close to me. "Watch us into mental and obvisionl isomobility for I do not The ship was about the same shape as the great know how long-It couldn't have been long, however, for the rays had dirigibles of the 20th Century that I had seen but without the suspended control car, engines, propellors, not planghed more than thirty of their twenty-fact rudders or elevating planes. As it foomed rapidly furrows or so across the valley, when I regained connearer. I saw that it was wider and accompant flatter. trol of averall, and beneath Wilma to herself by shake than I had supposed ing her roughly Now I could see the repellor rays that held the ship "How far will this rocket gun shoot, Wilma?" I aloft, like searchlight beams faintly visible in the bright demanded, drawing my pitcal.

couldn't penetrate the shell of that ship with rocket force, even if you could reach it." I fumbled classily with my rocket pouch, for I was excited. I had an idea I wanted to try; a "hunch" I called it, forgetting that Wilma could not understand my ancient slane. But finally, with her help, I selected

the lowest range explosive rocket in my pouch, and fitted it to my pastol. "It won't carry seven thousand feet, Tony," Witma objected. But I took aim carefully. It was another thought that I had in my mind. The appropriate repeller ray, I had been told, became molecular in character at what was colled a logarithmic level of five (below

that it was a purely electronic "flow" or pulsation between the source of the "carrier" and the average mass of the earth). Below that level if I could project my explosive hullet into this stream where it began to carry material substance unward, might it not rise with the air column, gathering speed and hitting the ship with ensuch impact to carry it through the shell? It was worth trying anyhor. Wilms became greatly excited.

too, when she grasped the nature of my inspiration, Revenishly I looked around for some formation of branches against which I could rest the nistol, for I had to aim most carefully. At last I found one, Publicativ I sighted on the bulk of the skin for show up. aiming at the far side of it, at such an angle as would, so far as I could estimate, bring my bullet path through the forward renellor beam. At last the sights wavered across the point I sought and I pressed the hutton

For a mornest we sazed breathlessly. Suddenly the ship swing bow down, as on a pivot, and sugged like a pendulum. Wilms screamed in her excitement. "Oh Tony, you hit le! You hit it! Do it again:

bring it down? We had only one more rocket of extreme sames between us, and we dropped it three times in our excitament in inserting it in my gun. Then, foreing myself to be calm by obeer will power, while Wilms stuffed her little fist into her mouth to keep from shrieking. I sighted carefully again and fired. In a flash, Wilms

had grasped the hope that this discovery of mine might lead to the end of the Han domination. The classed time of the rocket's invisible flight Then we saw the ship falling. It seemed to plunge lazily, but actually it fell with truific acceleration.

turning and over end, its disintegrator rays, out of control. describing wast, wild area, and once cutting a grab through the forest less than two bundled feet from where we stood The crash with which the beavy craft hit the ground properherated from the kills-the mornestorn of sixturen or twenty thousand tons, in a sheer drop of seven thousand feet. A manaled mass of metal, it buried

been so deliberately pleasiting.

exultantly above the follige screen. And in the distance In a moment the sky was punctured by signal rockets. One after another the little red puffs became drifting "Scatter! Scatter!" Wilms exclaimed. "In half an hour there'll be an entire Han fleet here from Nu-vok. and another from Bah-flo. They'll get this instantly

on their recordormobs and location finders. They'll blast the whole valley and the country for miles beyond. Come, Tony. There's no time for the gang to rally. See the signals. We've got to jump. Oh, I'm Over the ridge we went, in long lesses towards the

The silence, the vacuity of the landscape, was en-

Then far down the hill-side, a single figure leaped

pressive, as the last echoes died away.

east, the country of the Delawares.

selves and the valley.

another, and another.

From time to time signal rockets puffed in the sky. Most of them were the "red warnings," the "scatter" signals. But from certain of the others, which Wilms identified as Wyoming rockets, she gathered that whoever was in command (we did not know whether the Boss was alive or not) was ordering an ultimate rally toward the south, and so we changed our course. It was a overst new I throught that the clan had not

hern equipped throughout its membership with ultrophones, but Wilms explained to me, that not enough of these had been built for distribution as yet, although general distribution had been contemplated within a couple of months We traveled far before nightfall overtook us, trying only to put as much distance as possible between our-

When eathering dusk made lumning too dangerous, we sought a comfortable spot beneath the trees, and consumed nort of our emergency rations. It was the first time I had tasted the stuff-a highly nutritive systhetic substance called "concentro," which was, however, a bit bitter and unpulatable. But as only a monthful

or so was needed, it did not matter. Neither of us had a closk, but we were both thoroughly tired and happy, so we carled up together for warmth. I remember Wilma making some sleepy remark about our matine, as she caddled up, as though the matter were all settled, and my surprise at my own instant acceptance of the idea, for I had not consciously thought of her that way before. But our both fell asleen

at once. In the morning we found little time for love making. The practical problem facing us was too great. Witne felt that the Wyoming plan must be to rally in the Susmanna territory, but she had her doubts about the wisdom of this plan. In my elation at my success in bridging down the Han thin, and my newly found interest in my charming companion, who was, from my viewpoint of another century, at once more highly civifized and yet more primitive than myself. I had foreastern the arrivorus fact that the Hon shin I had

Hors had perfected new instruments as yet unknown

destroyed must have known the exact location of the itself in the ground, with poetic justice, in the middle Wyomine Works. of the smoking, semi-molten field of destruction it had This meant, to Wilma's logical mind, either that the to us, or that somewhere, among the Wyomings or some other nearby gang, there were traitors so deeraded as to commit that nothinkable act of trafficking is information with the Hans. In either contingency, the angued, other Han rasks would follow, and since the Susquarens had a highly developed organization and more than usually productive plants, the next raid

marks be expected to strike them. But at any rate it was clearly our business to get in such with the other fugitives as quickly as possible,

so in strite of muscles that were such from the excessive learing of the day before, we continued on our way, We traveled for only a couple of hours when we sust a multi-colored rocket in the sky, some ten miles aboud of us.

"Bear to the left, Tony," Wilms, said, "and listen for the whistle."

"Why?" I asked. "Haven't they given you the rocket code yet?" she replied. "That's what the green, followed by yellow

and purple means; to concentrate five miles east of the recket position. You know the recket position itself might draw a play of disintegrator beams," It did not take us long to reach the neighborhood of the indicated rallying, though we were now traveling

beneath the trees, with but an occasional leap to a top branch to see if any more rocket smoke was floating share. And soon we beard a distant whittle We found about half the Gene already there, in a soot where the trees met high above a little stream.

The Big Boss and Raidbosses were busy reorganizing We reserved to Bess Hart at once. He was silent, but interested, when he heard our story.

"You two stick close to me," he said, adding granly, "I'm ening back to the valley at once with a hundred titled men, and I'll need you.

CHAPTER V Setting the Tran

certain amount of caution was sacrificed for the sake of speed, and the men leased away either across the forest top, or over open spaces of ground, but concentration was furbidden. The Bir Boss named the sect on the hillside as the rallying point, "We'll have to take a chance on being seen, so long

so we don't group," he declared, "at least until within ive rolles of the rallying spot. From then on I want every man to disappear from sight and to tweel under cover. And keep your ultrophones open, and tuned Wilms and I had received our battle equipment from

the Gear hoss. It consisted of a long gun, a hand-gun, with a special case of arimunition constructed of incrtron, which made the load weigh but a few ounces, and a short sword. This year we strapped over each other's shoulders, on too of our jumping belts. In addition, we each received an ultrophone, and a light inertron blooket rolled into a cylinder about six inches long by two or three in diameter. This fabric was exceedingly thin and light, but it had considerable warmth, be-



with spariding eyes. (And I might mention a curious thing bue. The word "business" had survived from self-contained sending sets, strateged to the chest a few the 20th Century American vocabulary, but not with inches below the neck and actuated by the vibrations any meaning of "industry" or "trade," for such things from the vocal cords through the body tissues. The being murely community activities were spoken of an total range of these sets was about eighteen miles. Re-"work" and "clearing." Business skuply meant fightception was remarkably clear, quite free from the static ing, and that was all,) that so marked the 20th Century radios, and of a

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set. They slipped into little pockets over our ears in

the fabric helmets we wore, and shut out virtually

all extraneous sounds. The chest discs were likewise

No protection, except that against drafts, was

"Did you bring all this equipment from the valley?" strength in direct proportion to the distance of the Lasked the Gear boss speaker. "Nu," he said. "There was no time to gather any-The Boss' set was triple powered, so that his orders thing. All this stuff we cleared from the Susquanus would cut in on any local conversations, which were a few hours are. I was with the Boss on the way down. indulged in, however, with great restraint, and only

cause of the mixture of inertron in its composition.

"This looks like business," Wilms remarked to me

and he had me immo on shead and arrange it. But you for the purpose of maintaining contacts. two had better be moving. He's beckment you now." I respected at the efficiency of this modern method Hart was about to call us on our phones when we of battle communication in contrast to the clumps looked are. As soon as we did so, he leaped away, signaline devices of more ancient times; and also at waxing us to follow closely. other military contrasts in which the 20th and 25th

He was a powerful man, and he darted shead in Century methods were the reverse of each other in long, swift, low leans up the banks of the stream, which efficiency. These modern Americans, for instance, followed a fairly straight course at this point. By exknew little of hand to hand fighting, and nothing, tending ourselves, however, Wilma and I were able naturally, of trench warfare. Of barrages they were

to catch up to him. quite ignorant, although they possessed weapons of As we gradually synchronized our lesos with his. terrific power. And until my recent flash of inspirahe outlined to us, between the grunts that accompanied tion, no one among them, apparently, had ever thought each lean, his plan of action.

of the scheme of chapting a nicket iron a recelling beam "We have to start the big business-onb-sconer and letting the beam itself hurl it unwand into the most or later," be said. "And if-unh-the Hans have vital part of the Han ship found any way of locating our positions-unb-it's Hart patiently placed his men, first giving his in-

time to start now, although the Council of Bossesstructions to the compmasters, and then remaining unb-had intended waiting a few years until enough silent, while they placed the individuals. rocket shire have been unbalante. But no motter In the end, the hundred men were ringed about the what the sacrifice-out-we can't afford to let them

valley, on the hillsides and tong, each in a position from get us on the run-unb-. We'll set a trap for the which he had a good view of the wreckage of the Harr yellow devils in the-unb-valley if they come back for ship. But not a man had come in view, so far as I their wreckare-unbount if they don't we'll go could see in the whole recess

rocketing for some of their liners-unb-on the Nu-The Boss explained to me that it was his idea that vok, Clee-lan, Si-ka-ga course. We can use-unbhe, Wilms and I should investigate the wreck. If that idea of yours of shooting up the repellor-unit-Han ships should appear in the sky, we would leap

beams. Want you to give us a demonstration." for the hillsides With further admonition to follow him closely, he I suggested to him to have the men set up their long-

increased his name and Wilms and I were toyed to guns trained on an imaginary circle surrounding the our atmost to keep up with him. It was only in ascendwreck. He hanied himself with this after the three ing the slopes that my tougher muscles overbalanced his of us leaned down to the Han thin, serving as a target

greater skill, and I was able to set the pace for him, bimself, while he called on the men individually to aim as I had for Wilms: their pieces and lock them in position. We sleet in greater comfort that night, under our In the meantime Wilms and I climbed into the inertron blankets, and were off with the dawn, leaping wreckage, but did not find much. Practically all of the

cautionsly to the top of the ridge overlooking the valley

which Wilms and I had left all recognizable shape, or interly destroyed by the shin's The Boss scanned the sky with his vitroscope, padisinterrator rays which answerently had continued to tiently taking some fifteen minutes to the task, and then operate in the midst of its warped remains for some

swang his phone into use, calling the roll and giving the men their instructions. It was unpleasant work searching the manufed bodies His first order was for us all to slip our ear and of the crew. But it had to be done. The Han clothing.

chest discs into permanent position. I observed, was quite different from that of the Ameri-These ultrophones were quite different from the one cars, and in many respects more like the early to which

used by Wilma's companion scout the day I saved her I had been accustomed in the earlier part of my life from the vicious attack of the bandit Gang. That one It was made of synthetic fabrics like silky boose and

was corresised entirely in a small pocket case. These, comfortable trousers of knee length, and sleeveless

with which we were now equipped, consisted of a pair of shirts.

our discs, each a senarate and self-compained receiving

neoled, Wilma explained to me, for the Han cities nere entirely enclosed with inlouded arrangements for ventilation and heating. These arrangements of course were equally adequate in their airships. The Hans, indeed had costs a districts for undivided doublets since their lightupy properties diffused a controlled amount of violet rays, making the unmodified sunlight unnecessary for health, and undescrable for comfort. Since the Hans did not have the secret of inertron, none of them were anti-gravity belts. Yet in spite of the fact that they had to bear their own full weights at all times. they were physically far inferior to the Americans, for

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the east morth west."

twenty of them.

they fixed fives of decorrective eductival inertia, buying machinery of every description for the pertonuance of all labor, and convenient conveyances for any movement of more than a few stens Even from the twisted wreckage of this thin I could see that seats, chairs and couches played an extremely important part in their scheme of existence But none of the bodies were overweight seemed to have been the budies of men in cood health. but muscularly much underdeveloped. Wilms explanted to me that they had mastered the science of

gland control, and of course dietetics, to the point where men and women among them not uncommonly reached the age of a hundred years with arteries and peneral health in splendid condition I did not have time to study the ship and its contents as carefully as I would have liked, however. Time personal and it was our business to discover some class to the deadly accuracy with which the ship had spotted

the Wyoming Works The Boss bad bardly finished his arrangements for the riper barrage, when one of the source on an emineror to the north, announced the approach of seven Hanships, spread out in a great semicircle. Hart leaned for the billside calling to us to do like-

wise, but When and I had raised the flore of our belinets and switched off our "speakers" for conversation between curredoes, and by the time we discovered what had horogred, the ships were clearly visible, so fast were they armenaching "Jemo?" we heard the Bose order, "Deering to the north. Ropers to the east."

But Wiless looked at me meaningly and pointed to where the twisted plates of the thip, projecting from the mound offered a shelter. "Too late. Boss," she said. "They'd see us. Betides I think there's comething here we could to look at. It's probably their marnetic eraph,"

"You're signing your death warrant," Hart warned. "We'll risk at" said Wilms and I together, "Good for you," renfied the Boss. "Take command then, Rogers, for the present. Do you all know his

spire been ? A chorns of assent rang in our ears, and I began to do some fast thinking as the girl and I ducked into the twested most of metal. "Wiles, burst for that record." I said becomes that by the sample process of talking I could keep the entire command continuously informed on to the citation 'On the billisides, keep your runs trained on the circles and stand by. On the hilltons, how many of you are are but two of me in the valley, since there're settling without opening no disintegrators. Any opinions?" Doering and I remain here until they land and deback. Stand by and Leen alort " Rapidly and early the largest of the Han ships settled to the earth. Three secured sharply to the south, riting to a higher level. The others floated motionless about a thousand feet above Percing through a small fissure between two plates. I saw the vast bulk of the ship come to rest full on the line of our promective ring barrage. A door clanged core a couple of feet from the ground, and one by

there? Speak in rotation from Bold Knob around to

In turn the men called their names. There were

I assigned them by muse to cover the various Han

"Train your rockets on their repellor rays about

three-quarters of the way my, between ships and ground. Aim is more important than elevation. Fol-

low those rave with your sim continuously. Shoot when

I tell you, not before. Deering has the record. The Hans wellahly have not seen us, or at least think there

thirts rembering the latter from left to right

one the crew emerged. CHAPTER VI The "Wycening Massacre"

My ear discs remained silent.

THEY'RE coming out of the ship." I spoke quetly, with my hand over my mouth, for fear

they might hear me. "One-two-three-four five-riv-seven-right-nine. That arens to be all. Who knows how many men a ship like that is fitely "About ten, if there are no passengers," replied one of my men nechably one of those on the hillaide.

"How are they armed?" I asked "Just feriess," came the recky. "They never named hand-rays on the ships. Afraid of accidents. Have a rolling against it." "Leave them to us then," I said, for I had a hartly formed plan in my mind. You, on the billings, take

the ships above. Abandon the ring target. Divide up in training on those repellor rays. You on the billtons. all train on the repellers of the ships to the south Shoot at the word, but not before "Where, growl over to your left where you can make a streight leap for the cloor in that ship. These men

are all walking around the wreck in a bunch. When they're on the far side. I'll give the word and you leap through that doce in one bound. I'll follow. Maybe we won't be seen. We'll overnower the guard inside het don't shoot. We may excans being seen by both

this crew and ships above. They can't see over this wreck" It was so easy that it seemed too good to be true

The Harw who had emerged from the thin walked

round the wreckage lazily, talking in gutteral tones, keenly interested in the wreck, but unite prospections At last they were on the far side. In a moment they would be nicking their way into the wreck.

"Wileya, least" I almost withoured the order. The distance between Wilma's hiding place and the door in the side of the Han ship was not more than rays-all of them-and for God's sales, don't miss." fifteen feet. She was already consched with her feet And I counted braced gainst a metal beam. Taking the lift of that I think my "three" was a hit weak. I know it tack wonderful incurren belt into her calculation, she dove all the courage I had to utter it. headforemost, like a green projectife, through the door. I followed in a suffit second, more clumstly, but no less

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speedily, brusing my shoulder twinfully, as I ricocheted from the odge of the opening and beneath on sliding against the unconscious girl: for the evidently had his her head against the partition within the ship into which We had made some noise within the ship. Shuffing footstess were approaching down a well lit canonics.

"Any signs we have been observed?" I asked my men on the hillsides. "Not yet." I heard the Boss reply, "Ships overhead still stanfing. No beams have been broken out. Men on ground absorbed in wreck. Most of them have crawled into it out of sight."

"Good," I said quickly. "Deering hit her head. Knocked out. One or more members of the crew soproaching. We're not discovered yet. I'll take care of them. Stand a bit longer, but be ready." I think my last words must have been heard by the man who was approaching, for he stopped suddenly, I crowched at the far side of the compartment

motionless. I would not draw my sweed if there were only one of them. He would be a weakling, I figured. and I should easily overcome him with my bure hands. Apparently recovered at the absence of any further sound, a man came around a sort of buildhead-and I

I swung my legs up in front of me as I did so, catching him full in the stomach and knocked him I ran forward along the keel gangway, searching for the control more. I found it well up in the now of the ship. And it was deserted. What could I do to jam the controls of the ships that would not register on the recording instruments of the other ships? I

eazed at the mass of controls. Levers and wheels galore. In the center of the compartment, on a mastively brazed universal inject mountains; was what I took for the repellor experator. A dial on it elowed and a faint burn came from within its shielding metallic case. But Above all else. I was afraid that some automotic telephone apparatus existed in the room, through which

I might be heard on the other ships. The risk of trying to jam the controls was too great. I abandoned the ides and withdrew softly. I would have to take a chance that there was no other member of the crew I ran back to the estrance compartment. Wilms still lay where she had slumped down. I heard the

voices of the Hans approaching. It was time to act. The next few seconds would tell whether the thing in the air would try or be able to melt us into nothingness. Are you born all ready?" I asked preening to a position opposite the door and drawing my hand-gun.

For an arosazing instant nothing happened, except that the landing party from the ship strolled into my range of vision. Thru startled, they turned their eyes unward. For an instant they speed fitness with horror at whatever they saw. One hurled his knife at me. It grazed my cheek, Then a couple of them made a break for the doorway. The rest followed. But I fired pointblank with my

Arain there was a chorus of assert

Then on the count of three, shoot up those repelled

hand-gun, pressing the button as fast as I could and autum at their feet to make sure my explosive nockets would make contact and do their work. The detorations of my rockets were dealering. The met on which the Hans stood flashed into a kinding glare. Then there was nothing there except their torn and mutilated corners. They had been fairly horehed and I got them all I run to the door, expecting any instant to be hurled into infinity by the sweep of a disintegrator ray.

Some girlsh of a mile away I saw one of the ships crash to earth. A disintegrator ray came into my line of vision, wavered uncertainly for a moment and then berns to sween directly toward the ship in which I stood. But it never reached it. Suddenly, like a liebe switched off, it shot to one side, and a moment later another wast hulk crashed to earth. I looked out, then stepped out on the ground The only Han ships in the sky were two of the scouts to the south which were lunging perpendicularly, and

surring slowly down. The others must have crashed down while I was deaferred by the sound of the explosion of my own rockets. Somebody hit the other repellor ray of one of the two remaining shins and it fell out of sight beyond a hillton. The other, farther away, drifted down diamerally, its disintegrator my playing victoraly over the ground below it. I showted with exultation and relief.

"Take back the command, Boss!" I velled. His commands, sending out jumpers in pursuit of the descending ship, rang in my ears, but I said so attention to them. I leaped back into the compartment of the Han ship and lengt beade my Wilms. Her padded helmet had absorbed much of the blow, I thought; otherwise, her skull might have been frac-

her. ."We must have won, dearest, did we?"

"Oh, my head?" she grouned, coming to as I lifted her gently in my arms and strude out in the open with "We most certainly did," I reassured her "All but

one crashed and that one is drifting down toward the south; we've captured this one we're in intact. There was only one member of the crew aboard when we dove in."

Less than an hour afterwards the Bir Boss ordered the outlie to tune in ultrophones on three-twenty-three to pick up a translated broadcast of the Han intelligence



tor, and that the ship hone stern down for a short space, swinging like a pendulum. The forward viewplates and indicators did not cease functioning, but their records are chaotic, except for one projectoscope still, which shows the bowl of the valley, and the GK-981 falling, but no visible evidence of tribesmen. The control-come viewplate is also a chartic record of the

Its records add little to the knowledge of the disputer.

But with the LK-745 and the LG-25 it was different.

The relay instruments of the LK-745 indicated the

shin's crew tumbling and falling to the year wall. Then the forward rep-ray generator exploded, and all signals "The fate of the LG-25 was somewhat similar, except that this ship hung nose down, and drifted on the wind southward as it slowly descended out of control. "As its control room was shattered, werhal report from its Action Caesain was precluded. The record of the interior rear viewplate shows members of the crew climbing massed the year process processor in an atterret to establish manual control of it, and increase

the lift. The projectoscope relays, swinging in wide arcs, recorded little of value except at the ends of their swings. One of these, from a machine which happened to be set in telescotic cas, shows several views of great value in picturing the falls of the other ships, and all of the year projectorrone records enable the reconstruction in detail of the pendulum and torsional movements of the ship, and its sag toward the earth. any indication of tribesmen's presence. A final explacing put this ship out of commission at a height of 1,000 feet, and at a point four miles S. by E. of the

center of the valley." The message coded with a repetition of the warning to other airmen to avoid the valley.

CHAPTER VII Incredible Treason PTER receiving this prooft, and reassurances of support from the Big Bosses of the neighboring Games, Hart determined to reestablish the Wy-

cerine Valley community. A careful survey of the territory showed that it was only the northern settions and alones that had been "beamed" for the first Han ship. The symbolic fabrics plant had been partially wised out, though the lower levels underground had not been

reached by the dis ray. The forest screen above it. however, had been applicated, and it was determined to abandon it, after removing all usable machinery and evidences of the negrosses than moths be of interest to

the Han scientists, should they return to the valley in the future

The committee elect and the explosions about of the raid, were intact, as were the other important Hart brought the Camboss up from the Susquamna Works, and laid out new camp locations, seatterstg them further to the routh, and avoiding ground

plants.

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which had been seared by the Han beams and the im-

first to be tut in operation, and when it became evident

that the Hans did not intend any immediate reprisals,

the entire membership of the community was sur-

destruction of the ships, and spent this intervenite period in a delightful housymoon, camping high in the

mountains. On our syturn, we had a camp of our own.

of course. We were assigned to location 1017. And as might be expected, we had a great deal of burter

over which one of ms was Camp Boss. The title stood

after my same on the Big Boss' records, and those of

the Big Camboss, of course, but Wilma airthy held that

this meant nothing at all-and generally succeeded in

I found myself a full-fledged member of the Gang

now for I had elected to search no farther for a new

manent alliance, much as I would have fiked to famil-

issize myself with this 25th Century life in other

sections of the country. The Wyomings had a high

morale, and had prospered under the rule of Big Boss

Hart for meny years. But many of the sange, I found,

were hadly organized, lacked strong hands in authority,

and were rife with intrione. On the whole I thought

I would be wise to stay with a group which had already

proved its friendliness, and in which I seemed to have prospects of advancement. Under these modern social and economic conditions, the kind of individual free-

dom to which I had been accustomed in the 20th Cro-

tury was impossible. I would have been as much of a

nonentity in every phase of homon relationship in

attempting to avoid alligners, as any man of the 20th

Century would have been politically, who aligned himself with no political party.

This entire modern life, it appeared to me, judging from say ancient viewooint, was organized along what

Wilese and I had been murried the day after the

moned back, and normal life was resumed

making me admit it whenever she chose.

During this period, a sharp check was kept upon Han messones, for the phone plant had been one of the

mediate locations of the Han wrecks.

armoud me so notice how universal had become the use of the word "boss." The leader, the person in charge or authority over anything, was a "boss." There was

I called "political" lines. And in this connection, it

as little formality in his relations with his followers as there was in the case of the 20th Century political boss. and the same high respect poid him by his followers as well as the same high consideration by him of their

interests. He was just as much of an autocrat and just as much dependent upon the several popularity of his actions for the ability to maintain his autocracy,

his followers was as unickly depend, either by them or

by his superiors, as the ancient ward leader of the 20th As society was organized in the 20th Century, I do

not believe the system could have worked in anything

has agining. I termide to third what would have been

nened, had the attempt been made to handle the A.E.

F. this way during the First World War, instead of

by that rivid military discipline and complete assump-

tion of the individual as a mere standardized cog to the machine

ARMAGEDDON - 2419 A.D. But owing to the centuries of desperate suffering rays unless we use much larger rockets. They are the people had endured at the hands of the Hans, there wise to us now. They're putting armor of great thickdeveloped a spirit of self-sperifice and consideration ness in the halls of their ships below the rep-ray for the crowned good that made the scheme ambitable machines. Near Bab-flo this morning a party of Fries shot one without success. The explosions staggered and efficient in all forms of human concerntion. I have a little herory about all this, however. My her, but did not penetrate. As near as we can gather associates record the thought with as much horror an from their reports, their laboratories have developed many worthy secrete of the 20th Century felt in regard a new allow of great tensile strength and elasticity which to any heretical suggestion that the original outline nevertheless lets the reo-rays through like a sieve. Our of government as laid down in the First Constitution reports indicate that the Eries' rockets bounced off did not apply as well to 20th Century conditions as to harmlessly. Most of the norty was wired out as the those of the early 19th. dis rays went into action on them. In later years, I felt that there was a certain soften-"This is going to mean real business for all of the ing of moral fiber among the people, since the Hans gangs before long. The Big Bosses have just held a had been finally destroyed with all their works; and tototral ultroobone council. It was decided that Americans have developed a new luxury economy. I America must organize on a national basis. The first have seen signs of the reasonkening of greed, of self- : move is to develop sectional organization by Zonea ishness. The eternal cycle seems to be at work. I fear I have been made Superboss of the Midatlandic Zone that slowly, though surely, private wealth is reasonar-"We're in for it now. The Hans are sure to bunch ing, codes of inflexibility are developing; they will be reprisal expeditions. If we've to save the race we must followed by corruption, degradation; and in the end keep them away from our camps and plants. I'm some catachemic event will end this era and suber in thinking of developing a permanent field force, along A DEW COC. the lines of the regular armies of the 20th Century you All this, however, is wandering afar from my story, told me about. Its business will be twofold; to earry the warfare as much as possible to the Hans, and to which concerns our early battles against the Hans, and not our more modern problems of self-control serve as a decoy, to keep their attention from our Our victory over the seven Han shins had set the plants. I'm going to need your belo in this, "The other thing I wanted to talk to you about is country ablaze. The secret had been carefully comreminded to the other games and the country was this: Amazing and impossible as it seems, there is a seror from one and to the other. There was feverish group, or perhaps an entire gang, somewhere among activity in the ammunition plants, and the husting of us, that is betraying us to the Hans. It may be the Bad Bloods, or it may be one of those gangs who live near stray Han ships became an enthusiastic sport. The results were disastrous to our berufftary enemies. one of the Han cities. You know a hundred and From the Pacific Coast came the report of a great fifteen or twenty years ago there were certain of these Transpecific liner of 75,000 tons "feit" being brought to earth from a resistion of legishility above the clouds. by mating with the Hans, sometimes even serving them A dreen Sacramentos had caught the hazy outlines as slaves, in the days before they brought all their serof its rep-rays approaching them, head-on, in the twivice muchinery to perfection "There is such a gang, called the Nagras up near finder files aboutly rellars resoluted into the sky. They Bah-flo, and another in Mid-Iersey that men call the had fired reckets into it with east, whereas they would have had difficulty in bitting it if it had been moving Pineys. But I hardly suspect the Pineys. There is at right angles to their position. They got one rep-ray. fittle intelligence among them. They wouldn't have the information to give the Hans, nor would they be The other was not strong enough to hold it up. It floated to earth, post down, and since it was marmed capable of innorting it. They're absolute savages." and unarmored, they had no difficulty in shooting it "Tust what evidence is there that anybody has been clearing information to the Hans?" I asked. to pieces and massacring its crew and passengers. It second harbarous to me. But then I did not have "Well" he replied "first of all there was that raid centuries of bitter persecution in my blood. upon us. That first Han ship knew the location of From the Jersey Beaches we received news of the our plants exactly. You remember it floated directly into position above the valler and become avoid-matic destruction of a No-volu-Aslania liner. The Sandstiness practically invisible in their sand colored beaming. Then, the Ham quite obviously have learned clothing, and half buried along the beaches, by in wait that we are picking up their electrophone waves, for for days, risking the play of dis beams along the route they've gone back to their old, but extremely accurate, and finally registering four hits within a week. The system of directional control. But we've been setting Hars discontinued their service along this route, and them for the past week by installing automatic reas evidence that they were badly shaken by our success. broadcast miles alone the sear naths. This is what the next no midera down the Reaches Americans called those strips of country directly under It was a few weeks later that Big Boss Hart sent for the remain ship routes of the Hats, who so a matter of precaution frequently blasted them with their dis-"Tony," he said, "There are two things I want to beams to prevent the growth of foliage which might rally to you about. One of them will become public give shelter to the Americans. But they've been beamproperty in a few days. I think. We aren't going to ing those paths so hard, it looks as though they even get any more Han ships by shooting up their repellor had information of this strategy. And in addition, they've been using code. Finally, we've picked up three of their messages in which they discuss, with some nervousness, the existence of our 'mysterious' "But they still have no knowledge of the nature and central of ultrosic activity?" I asked. "No." and the Bir Boss thoughtfully "they don't seem to have a bit of information about it." "Then it's quite clear," I ventured, "that whoever is 'clearing' us to them is doing it precement. It sounds like a bit of occasional barter, rather than an out and cert alliance. They're holding back as much informa-

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tun as possible for future bartering, perhaps." "Yes," Hart said, "and it isn't information the Hans are obvious in return but some form of goods, or privileve. The trick would be to locate the goods. I guess I'll have to make a personal trip around among the Big Bosses." The Han City

HIS conversation set me thinking. All of the Han electrophene inter-communication had been an open record to the Americans for a good many years, and the Hans were just finding it out For centuries they had not regarded us as any sort of a menace. Unquestionably it had never occurred to them to secrete their own records. Somewhere in No-Yok or Bah-flo.

or possibly in Lo-Tan itself, the record of this traitorous transaction would be more or less openly filed. If we could only get at it! I wondered if a raid might not be possible. Bill Hearn and I talked it over with our Han-affairs Boss and his expens. There comed several days of research, in which the Han records of the entire decade were scanned and analyzed. In the end they picked cest a mass of detail, and fitted it together into a very definite nicture of the areat central filing office of the Ham in Nu-Yok, where the entire mass of official records was kept, constantly available for instant proectoscoping to any of the city's offices, and of the

system by which the information was filed. The attempt began to look feasible, though Hart instantly turned the idea down when I first persented it to him. It was anthinkable, he said. Sheer suicide. But in the end I persuaded him. "I will need." I said. "Blash, who is thoroughly famil-

iar with the Han libeary system; Bert Gaure, who for years has specialized on their military offices; Bill Barker, the ray specialist, and the best swooper pilot we have." Sprongers are one-man and two-man ships,

developed by the Americans, with skeleton backhones of inceteon (during the wol pointed green for invisibility arainst the green forests below) and "bellies" of clear "That will be Most Gibboro" said Hart. "We've only one three swooners left. Tony, but I'll risk one of them if you and the others will voluntarily risk your existences. But mind, I won't urge or order one of you to go. I'll spread the word to every Plant Boss as once to give you anything and everything you need in

the way of equipment,"

We were ready to slide off at dawn the next morning. I had kissed Wilms good-bye at our camp, and after a final conference over our plans, we boarded our craft and gently glided away over the tree tons on a course which after emission three routes of the Hanships, would take us out over the Atlantic, off the lersey coast, whence we would come up on Nu-Yok Twice we had to nose down and he motionless on the pround near a route while Han shins passed. Those were tense moments. Had the green back of our ship been observed, we would have been distinterrated in a

When I told Wilms of the plan. I expected her to

raise violent and tearful objections, but she didn't. She

was made of far sterner stuff than the women of the 20th Century. Not that she couldn't ween as contourly

or he just as whiresical on occasion; but she wouldn't

there seemed to be a lift of price, and asked exerci-

for the details. I confess I was somewhat disappointed

that she could so consumerously risk my loss goon though

I was amoved at her fortifude. But later I was to learn

how little I knew her then.

She just easy me on unfathermakle look in which

second. But it wasn't Once over the water, however, we climbed in a great spiral, ten miles in dismeter, until our altimeter registerred ten miles. Here Gibbons shut off his rocket motor, and we floated, far above the level of the At-Then Gibbons turned from his control lotte encuelt to grin at me. "I have a surprise for you, Tony," he said throwing back the lid of what I had supposed was a bir supply case. And with a sigh of refiel, Wilms stepped out of "If you 'go into sero' (a common expression of the day for being annihilated by the disintegrator ray),

you don't think I'm going to let you go alone, do you, Tony? I couldn't believe my ears last night when you spoke of point without me, until I realized that you are still five hundred years behind the times in lots of ways. Don't you know dear heart, that you offered me the prestest insult a husband could give a wife? You didn't, of course." The others, it seemed, had all been in on the secret, and now they would have kidded me unmercifully, excent that Wilma's eves blazed dangerously At nightfall, we maneuvered to a position directly above the city. This took some time and calculation on the part of Bill Barker, who evoluted to me that he

had to determine our point by ultronic hearings. The slightest resort to an electronic instrument, he leared might be detected by our enemies' locaters. In fact, we did not dare being our swooper any lower than five miles for fear that its capacity might be reflected in their instruments Finally, however, he succeeded in locating above the

"If my calculations are as much as ten feet off." he remarked with confidence. "I'll got the tower. Now the rest is up to you. Mart. See what you can do to ARMAGEDDON - 2419 A.D.

speed.

over his levers, constantly adjusting them with deft verbes of his forcers. After a hit of wavering, the bean remained centered on the needle. "Now," I said, "let's drop," I opened the trap and looked down, but quickly shut t argin when I felt the air rushing out of the ship into the rarefied atmosphere in a torrest. Gibbons literally

yelled a protest from his instrument board. "I forme." I numbled. "Silly of mr. Of course. we'll have to drop out of compartment." The compartment to which I referred was similar to those in some of the 20th Century substancines. We all entered it. There was barely room for us to seard, shoulder to shoulder. With some strugglos, we got

into our special air belinets and adjusted the pressure. At our sirnal. Gibbons exhausted the air in the compartment, purpoing it into the body of the ship, and as the little signal light flashed, Wilms threw open the Setting the altron wire reel. I climbed through, and began to slide down gently. We all had our he'rs on, of course, adjusted to a

wright halance of but a few ounces. And the five-mile seed of ultron wire that was to be our guide, was of possumer fineness, though, anyway, I believe it would lave lifted the full worths of the five of us, so strong and tough was this invisible metal. As an extra preoutfor, since the wire was of the purest metal, and therefore totally envisible, even in daylight, we all had cer belts booked on small rings that slid down the wire.

I went down with the end of the wire. Wilms followed a few feet above me, then Barker. Gaunt and Blads. Gibbons, of course, staved behind to hold the ship in position and control the paying out of the line. We all had our obvenhones in place inside our air belower, and so could converse with one another and with Gibbens. But at Wilma's suggestion, although we would have fixed to let the Big Boss listen in, we Less them adjusted to short-camer work, for fear that

show who had been elearning with the Hans, and against whom we were on a raid for evidence, might also used: up our conversation. We had no fear that the Hans would hear us. In fact, we had the added advantage that, even after we landed, we could converse freely without danger of their hearing our voices through our

For a while I could see nothing below hat utter darkness. Then I realized, from the feel of the air as reach as from posithing, that we were unknow through a cloud layer. We passed through two more cloud

lavers before anything was visible to its Then there came under my gaze, about two miles below, one of the most heartiful sights I have ever sem; the soft, yet brilliant, radiance of the avent Han city of Nu-Yok. Every fact of its structural members served to play with a wonderful incandescence, tower

We landed on the work of the tower without any midian, and fortunately for our plan, in darkness, Since there was nothing above it on which it would have been worth while to shed illustration, or from which there was any need to observe it, the Hans had neglected to light the tower roof, or indeed to occupy it at all. This was the reason we had selected it as

piled up on tower, and all built on the vast base-mass

of the city, which, so I had been told, sheered unward

gradifies the Fay River and averagine out sufficiently

over what once had been Brooklyn, to provide berths

Straight beneath my feet was a tiny dark patch. It

seemed the only sout in the entire city that was not

aflame with ruffacee. This was the central tower, in

the top floors of which were housed the vast library of record files and the main projectoscope plant.

"You can shoot the wire now." I attrophored Gib-

bons, and let go the fittle weighted knob. It dropped

the a alcount and we followed with contiderable

speed, but braking our descent with ployed hands

sufficiently to see whether the knob, on which a faint

fight glowed as a signal for corselves, might be ob-

served by any Han grand or night provier. Apparently

it was not, and we again sleet down with accelerated

for the great liners and other air craft.

our landing place. As soon as Gibbons had our word, he extinguished the knob light, and the knob, as well as the wire, became notally invisible. At our altrophoned word, he would light it again. "No our nky now," I warned. "Swords only, and then only if absolutely necessary." Closely honohed, and treading as lightly as only in-

ertron-beited people could, we made our way cautiously through a door and down on inclined place to the flore below, where Gaunt and Blash assured us the military offices were located. Twice Barker cantioned us to stop as we were about to mass in front of mirror-like "windows" in the passage wall, and fisteening ourselves to the floor, we

crawled past them. "Propertogropes" he said. "Probably on automatic record only, at this time of night. Still, we don't want to leave any records for them to study after we're gone." "Were you ever here before?" I asked.

"No," he realied, "but I haven't been studying their electrophone communications for seven years without

being able to recognite these machines when I run across them."

The Fight in the Tower O far we had not laid eyes on a Han. The tower Second descried. Blash and Gauss, however, ason "doty" in the military offices, though ht world

AMAZING STORIES "We've got to out them out of commission," I said. In the middle of my leap my ultrophone regulated "Did you being the Mone" cars. Wilma?" her gash of plann. The next instant I riided to a stop "Ves," she said. "two for each. Here," and she at the intersection to see Wilms backing toward the distributed them. door of the military office, her sword red with blood We were now two levels below the roof, and at the and an inert form on the corridor floor. Two other Hans were circling to either side of her with wicked point where we were to separate I did not want to let Wilms out of my sight, but it looking beives, while a third evidently a high officer,

I could see her

in a great leap toward the intersection whence I know

different directions too. But Gibbons was an excent

of rare ability and sensitivity in the handling of a rocket

probably be asleep, and two or three in the library

pruper and the reprectorcone plant.

taut like this without reason."

In some slarm, I launched myself down the corridor

was necessary. judging by the respleadence of his garb tugged desper-According to our plan, Barker was to make his way ately to get an electrophone instrument out of a bulky to the projectoscope plant. Blash and I to the library, pocket. If he ever gave the alarm, there was no telling sad Wilms and Gaunt to the military office what might happen to us. I was at least seventy feet away, but I crouched low Blash and I traversed a lone corridor, and passed at the erest arched doorway of the Birary. Cautiously and some with every list of strength in my less. It we neered in. Seated at three great switchboards were would be more correct to say that I dived, for I

library operatives. Occasionally one of them would reached the fellow head on, with no attempt to draw reach largly for a lever, or sleepily push a button, as my less beneath me. little numbered fishes winked on and off. They were Some instinct must have warned him, for he turned answering calls for electrograph and viewplate records auddenly as I hurtled close to him. But by this time

on all sorts of subjects from all sections of the city. I had rook close to the floor, and had stiffened morell I apprised my compensors of the situation. rigidly, lest a drarging kase or foot might just prevent "Better wait a bit," Blash added. "The calls will my reaching him. I brought my blade upward and lessen shortly." over. It was a vicious sloth that laid him oven, bisert-

Wilma reported an officer in the military office sound ing him from groin to chin, and his dead body topoled asleen down on me, as I slid to a tangled stop. "Give him the can, thert," I said. The other two startled, turned. Wilms leaped at Barker was to do nothing more than keep watch in one and struck him down with a side slads. I looked

the projectoscope plant, and a few moments later he up at this instant, and the dazed fear on his face at reported himself well concealed, with a splendid view of the length of her less, registered vividly. The Hass knew nothing of our inertron belts, it seemed, and the floor

"I think we can take a chance now," Blash said to these lesses and dives of ours filled them with terror. me, and at my nod, he opened the lid of his dope can. As I rose to my feet, a gory mess, Wilco, with a Of course the forces did not affect us, through our poise and speed which I found time to admire even in

belinets. They were shadately without odor or visithis crisis, again lesned. This time she dove head bility, and in a few seconds the librarians were unconfirst at I had done, and with a beautifully executed

serious. We started into the room. throst, ren the last Han through the throat. There ensued considerable cautious observation and Uncertainty, she scrambled to her feet, stage-end

experiment on the part of Gaust, working from the queerly, and then sank gently proue on the corridor. military office, and Blash in the library; while Wilma She had fainted.

and I, with drawn swords and sharply attuned micro-At this innerture. Blash and Gaunt reported with phones, stood guard, and occasionally patrolled nearby elation that they had the record we wanted.

Back to the roof, everybody!" I ordered as I corridors.

"I hear something approaching," Wilms said after picked Wilma up in my arms. With her inertron belt,

a bit, with excitement in her voice. "It's a soft, elidshe felt as light as a feather.

Gaunt joined me at once from the military office, and That's an elevator somewhere," Barker cut in from at the intersection of the corridor, we came more Plack

the projectoscope floor. "Can you locate it? I can't waiting for us. Barker, however, was not in evidence "Where are you, Barker?" I called.

"It's to the east of me," she replied. "Go shead," he replied. "I'll he with you on the "And to my west," said L faintly catching it. "It's roof at once

between us. Wilms, and nearer you than me. Be care-We came out in the open without any further mishan.

ful. Have you got any information yet, Blash and and I instructed Obbons in the ship to light the knob

Gaunt 21 on the end of the ultron wire. It flashed dully a few

"Getting it now," one of them replied. "Give ut feet away from us. Just how he had maneuvered the

two minutes more." ship to keep our end of the line in position, without

"Keep at it then," I said. "We'll guard."

its swinging in a tremendous arc, I have never been

The soft, pliding sound ceased. shle to understand. Had not the night been an un-

"I think it's very close to me," Wilma almost whisusually still one, he could not have checked the initial

pered. "Come closer Tony. I have a feeling something pendulum-like movements. As it was, there was en-

is point to hanned. I've never known my nerves to see siderable air current at certain of the levels, and in ship, and he managed, with the aid of his deficate instruments, to sense the drifts almost before they af-

In order to float up, we had to dispense with a pound

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or two of wright aniece. We hurled our swords from us, and kicked off our shoes as Gibbons reeled up the line a bit, and then letting go of the wire, began to hum roward on our rines with increasing velocity. The rush of air brought Wilms to, and I hastily explained to her that we had been successful. Receding far below us now, I could see our dulty shining knob swinging to and fro in an ever widening arc, as it crossed and recrossed the black square of the tower roof. As an extra precaution, I ordered Gibbons to shut off the light, and to show one from the belly of

we can drop it."

the ship, for so great was our speed now, that I began to fear we would have difficulty in checking ourselves. We were literally falling unward, and with terrific acceleration. Fortunately, we had several minutes in which to solve this difficulty, which none of us, strangely enough, had foreseen. It was Gibbons who found the answer, "You'll be all right if all of you grab the wire tight when I give the more!" he said. "First I'll start recline it in at full speed. You won't eve much of a ser, and

then I'll decrease its speed again gradually, and its weight will hold you back. Are you ready? One-two -three F We all grabbed fightly with our gloved hands as he gave the word. We must have been rising a good bit faster than be figured, however, for it wrenched our arms considerably, and the maneuver set up a sixlentent

pendulum motion. For a while all we could do was awing there in an are that may have been a quarter of a mile across, about three and a baif miles also e the city, and still more Göbbers skillfully took on the slack as our momentum pulled up the line. Then at hat we had ourselves under control again, and continued our unward jour-

than a mile from our ship.

ney, checking one speed somewhat with our gloves. These was not one of us who did not breathe a line sich of relief when we scrumbled through the hatch safely into the this again, cast off the ultron line and Little realizing that we had a still more terrible experience to go through, we discussed the information Blash and Gaunt had between them extracted from the Han records, and the advisability of ultrephoning Hart to pick up our message. Even if we used the directional projector, they might have scouts out to the west and south in the big inter-gang stretches of country. They would fire to Nu-Yok and escape the punishment they merited. It seemed to be vitally important that they should not, for the sake of example to other weak groups among the American gangs, as well as to prevent a crisis in which they might clear more vital information to the enemy. "Out to sea again," I ordered Gibbons, "They'll be ksa likely to look for us in that direction." "Easy Boss easy" he replied. "Wait until we get up a mile or two more. They must have discovered evidences of our raid by now, and their die ray wall

The Walls of Hell

Shorings. They had exchanged scraps of information

to the Hans in return for several old receller ray

machines, and the privilege of turing in on the Han

electronic power broadcast for their operation, pro-

vided their sivins perced to subject themselves to the

since there was always danger that we might never

The rest wanted to ultrophone their news at once,

I objected, however. The Sinsings would be likely

orders of the Han traffic office, while aloft,

get back to the game with it

THE traitors were, it seemed a degenerate care

of Americans, located a few miles morth of Nuof Americans, tocarea a tew assessment yok on the wooded banks of the Hudson, the

Even as he sociot, the ship lurched downward and to one ride "There it is!" he shouted. "Hang on, everybody. We're enjoy to move straight up!" And he flinned the rocket motor control wide open. Looking through one of the rear ports, I could see a relutions funitions rine and on all sides the atmosobere took on a faire iridescence. We were almost over the destructive range of the disintegrator ray wall a hollow extinder of annihilation. shootine unward from a solid rise of emerators surrounding the city. It was the main defense system of tests. They may or may not have suspected that an American rocket ship was within the cylinder, probably they had turned on their generators more as a precaution to prevent any reaching a position above the city. But even at our present preat height, we were in

great danger. It was a question how much we might have been barroed by the rays themselves, for their effective range was not much more than seven or eight miles. The greater danger lay in the terrific downward reals of air within the collecter to replace that which was being harned into nothingness by the continual play of the disintegrators. The air fell into the cylinder with the force of a cute. It would be rushing toward the wall from the outside with terrific force also, but, naturally, the effect was intensified on the interior. Our ship vibrated and trembled. We had only one change of excessions finds our way well above the current. To drift down with it meant ultimately, and in-

But very gradually and jerkily our upward moveround as shown on the indicators becam to iterapose. and after an hour of despreade structed we were free of the machinen and into the rarefed upper levels. The terror honesth or was now invisible through several layers of cloud formations Gibbons brought the ship back to an even level, and drove her castward into one of the most brilliantly gor-

exitably to be surked into the destruction wall at some

gross surraes I have ever some We described a great circle to the south and west, in a long easy dive. for he had out out his rocket motors to save them as much as nearlife. We had drawn serviceable on their fuel reserves to our battle with the elements. For the moment, the atmosphere below

cleared, and we could see the Terrey coast far beneath. lår a great map. "We're not through yot," remarked Gibbons suddealy, pointing at his perisonne, and adjusting it to telescopic focus. "A Han ship, and a 'drop ship' at

that-and he's seen us. If he whips that beam of his on the we're done." I exzed. fascinated, at the viewplate. What I saw was a cigar shaped ship not dissimilar to our own in design, and from the proportional size of its ports, of about the same size as our assocrate. We learned later that they carried crews, for the most part of not more than three or four men. They had streamline hulls and toils that embodied universal-jointed double fish-tail rudders. In operation they rose to great beights

on their newerful repeller rays, then rathered spend either by a straight nose dive, or an inclined dive in which they sometimes used the repellor ray slanted at a sharp anele. He was already above us, though several miles to the north. He could, of course, try to get on our tail and "spear" us with his beam as he dropped at us from a great bright.

Suddenly his beam blazed forth in a Ninding flash. whitening downward slowly to our right. He went through a negative engineering like explosion, evidently moneyering to bring his beam to bear on us with a spiral motion Gibbons instantly sent our ship into a series of evo-

hen. Alternately, he used the forward and the reverse rocket blasts, and in varying degree. We fluttered, we shot suddenly to right and left, and dropped like a during in uncertain movements. But all the time the Han scout dropped roward us, determinedly whiteping the air around us with his beam. Once it sliced

arross beneath un, not more than a burdend feet, and we dropped with a jar into the nocket formed by the destruction of the sir. He had dropped to within a mile of us, and was

commun with the speed of a projectile, when the end came. Gibbons always swore it was sheer luck. Maybe it was, but I like relots who are lacky that way. In the midst of a diggy, fluttering maneuver of our own, with the Hon skin enlarging to our gure with terrifying rapidity, and its beam slowly slicing toward us in what looked like certain destruction within the second, I saw Gibbons' fingers flick at the lever of his

the side of the ship near the storn slowly crumbled like runted metal. His beam actually had roughed us but our embosise moket had not him a thousandth of a Part of our rudder had been annihilated, and our motor damaged. But we were able to swoon weather back across lersey, fortunately crossing the ship lanes without suchtfor any more Han craft, and finally settling to rest in the little glade beneath the trees, near Hart's carro

rocket gun and a solit second later the Han ship flew sourt like a cley pirron. We staggered, and fluttered crasily for several ma-

ments while Others strended to bring our ship into

balance, and a section of about four square feet in

W E had ultrophoned our arrival and the Big Boss himself, surrounded him and the Big

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accord scorer.

on hand to welcome us and learn our news In turn we were informed that during the night a hard of raiding Bad Bloods, disguised under the insignia of the Altoonas, a game some distance to the west of us had destroyed several of our carron before our people had rallied and driven them off. Their purpose evidently, had been to embroil us with the Altomas, but fortunately, one of our exchanges recognized the Bad Blood leader, who had been alson The Big Boss had mobilized the full suiding force of the Gang, and was on the point of heading an expedition for the extermination of the Bad Bloods.

I looked around the grim circle of the sub-bosses, and realized the fate of America, at this moment, lasin their hands. Their temper demanded the immediate expenditure of our full effort in revenging ourselves for this raid. But the stretegic exigencies, to my mind quite clearly donarded the instant and absolute extermination of the Sinsings. It might be only a matter of hours, for all we knew, before these degraded people would harter clues to the American ultronic secrets to the Hans.

"How large a force have we?" I asked Hart "Every man and maid who can be spared," he repiled. "That gives us seven hundred married and unmarried men, and three hundred girls, more than

the entire Bad Blood Gang. Every one is equipped with belts, sétrophones, rocket guns and swords, and all fighting mad." I meditated how I might put the matter to these determined men, and was vaguely conscious that they

Finally I began to speak. I do not remember to this

wetre a seniting per words. day just what I said. I talked calmly, with due regard

for their passion, but with deep conviction. I went over the suformation we had collected, noise by noise. of the danger impending in that half-alliance between

building my case logically, and painting a lurid picture the Sinsings and the Hans of Nu-yele. I became innassioned culminating. I believe with a you to neaced single handed against the hereditary enemies of our race, "if the Wromings were blindly set on placing a

ARMAGEDDON - 2419 A.D. rane feun abead of honor and duty and the hones of But the extermination of the Sinsings would be another them. In the first place, there would be no As I concluded, a great calm came over me, as of warning of our action until it was all over. I hoped one detached. I had felt much the same way during In the second place, we would have indisputable groof, several crises in the Furst World War. I seared from in the form of their rep ray slaps and other parapherface to face, striving to read their expressions, and in nals, of their traffic with the Haus; and the state of a mood to make good my threat without any further American prepuder, at the time of which I write held beroics, if the decision was against me. trafficking with the Hans a far more beingus thing than But it was Hart who sensed the temper of the Couneven a vicious same fend. cil more quickly than I did, and looked beyond it into I called an executive session of the Council at once the future. I wanted to inventory our entitiery resources He grose from the tree trusk on which he had been I created a new office on the spot, that of "Control Boss," and appointed Ned Carlin to the post, turning "That settles it," he said, looking around the ring. over his former responsibility as Plants Boss to his "I have felt this thing coming on for some time now. assistant. I needed someone, I felt, to tie in the re-I'm sure the Council agrees with me that there is among cords of the various functional activities of the camus a man more canable than I to hose the Womener neign, and take over from me the task of breezing the Goner, despite his handkno of having had all too short records of them up to the minute. a time in which to familiarize himself with our modern I received reports from the leases of the altrophone ways and facilities. Whatever I can do to sement unit, and those of food, transportation, fighting gear. his effective leadership, at any cost. I piedee muself chemistry, electronic activity and electrophone intelligener, pitrocopes, air natrol and contact exact. As be concluded, he advanced to where I stood, and My ideas for the campaign, of course, were somewhat tinged with my 29th Century experience, and I taking from his head the green crested belimet that constituted his bedge of office, to my surprise he pinced formed moveld faced with the task of working out a it is my mechanically extended hand. staff organization that was a composite of the best and The roar of approval that went up from the Cornell most casely applied principles of business and military members left me dazed. Somebody ultrophoned the efficiency, as I knew them from the viewnoint of innews to the rest of the Gang, and even though the mediate posterlity. earflans of my believe were toroned on. I could have the What I wanted was an organization that would be choers with which my invisible followers greeted me, specialized, (unctionally, not as that indicated above, from near and distant hillsides, cames and plants. but from the angles of; intelligence as to the Sinsings My first move was to make sure that the Phone activities: intelligence as to Han activities: serfection Boss, in communicating this news to the members of the of communication with my own units; co-operation of Genz, had not re-broadcast my talk nor mentioned my field command: and perfect mobilization of emergency plan of shifting the attack from the Bad Bloods to supplies and resources. the Singlers. I was relieved by his assurance that he It took several hours of hard work with the Council had not, for it would have wrecked the whole planto map out the plan. First we assigned functional Everything depended upon our ability to surprise the experts and equipment to each "Division" in accordance with its needs. Then these in turn were reassigned So I pledend the Council and my companions to by the new Digition Bosses to the Field Commands as secrecy, and allowed it to be believed that we were needed, or so Independent or Headourters Units, The about to take to the air and the trees against the Bad two intelligence divisions were named the White and the Yellow, indicating that one specialized on the That outfe must have been hadly scared, the way American enemy and the other on the Mongolieus they were "burning" the ether with ultrophone alibis The division in charge of our own communications. and processed for the benefit of the more dispost the assignment of ultrophone frequencies and strengths, games. It was their old rame, and the only method and the maintenance of operators and equipment, I by which they had avoided extermination long ago called "Communications." from their immediate neighbors-these appeals to the I named Bill Hoarn to the post of Field Boss, in spirit of American brotherhood, addressed to excess charge of the main or undetsched fighting units, and too far away to have had the sort of experience with to the Resources Division. I assigned all responsithem that had fallen to our lot. bility for what few aircraft we had; and all transports I chickled. Here was another good reason for the tion and supply problems, I assigned to "Resources" skift in my plans. Were we settrally to undertake the The functional beases stayed with this division exterminations of the Bad Bloods or once, it would We finally completed our organization with the assignment of fusion representatives among the various that we last not been precipitate and uniquetfied. Tealdivident as needed. cusies and prejudices existed. There were gangs which Thus I lied a "Headeupriers Staff" composed of the would give the benefit of the doubt to the Bud Blooks Division Busses who reported directly to Ned Garlin rather than to ourselves, and the issue was now bone. as Cantrol Boss, or to Wilms as my personal assistant. lessly beclouded with the clever lies that were being And each of the Division Bosses had a small staff of broadcast in an uncessing stream, his own.

of whom some three hundred and fifty were, in what I called the Service Divisions, the rest being in Bill Hearn's Field Division. This latter number, however, was cut down somewhat by the assignment of numercus small units to detached service. Altogether, the actstil awaighle fighting force, I figured, would number about five hundred, by the time we actually went into We had only six small swoopers, but I had an ingenious plan in my mind, as the result of our little

In the final summing up of our personnel and re-

scores. I found we had morelly a thorough "terrora"

raid on Novaca, that would make this sufficient since the reserves of inertron blocks were larger than I expected to find them. The Resources Division, by carbine its annaly cases a hit tight or by slinning in extra blocks of inertron, was able to reduce each to a weight of a few ounces. These easily could be floated and towed by the aweepers in any quantity. Hitched to ultron lines it would be a virtual impossibility for

them to break loose. The entire personnel, of course, was supplied with immers, and if each man and eigh was coreful to adjust balances properly, the entire number could also be towed along through the air, grasping wires of ultron, swinging below the swoopers, or stringing out

behind them. There would be nothing tiring about this, because the strain would be so greater than that of carrying a

one or two pound weight in the hand, except for air friction at high speeds. But to make doubly sure that we should lose none of our personnel, I gave strict orders that the helts and tow lines should be equipped with rings and books.

So great was the efficiency of the fundamental orgardantion and discipline of the Gang, that we got, under way at mehtfall. Our by one the swoopers eased into the air, each followed by its long train or "kite-trill" of humanity of ultron which, unfike the metal itself, is visible.

and supply cases hanging lightly from its tow line. For convenience, the tow lines were made of an allow At first these "tails" hane downward, but as the

ships swing into formation and headed eastward toward the Bad Blood territory, gathering speed, they began to string out behind. And swinging low from each ship on heavily weighted lines, nitroscore, phrophone, and strught-vision observers keenly scanned the countryside, while intelligence men in the sworpers above bent over their instrument boards and vieurslates. Leaving Control Boss Ned Garlin temporarily in thance of affeirs, Wilma and I dropped a weighted line from our ship, and slid down about half way to the

timler lookouts, that is to say, about a thousand feet-The sensation of floating swiftly through the air like this, in the absolute security of one's confidence in the

inverteen belt, was one of never-ending delight to me.

approached the territory of the Bad Bloods, and di-

rected the preparations for the hombardment. It was

part of may plan to appear to carry out the attack as

About fifteen miles from their camps our ships came

We reasonded into the swooper as the expedition

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up from the surface of the earth.

west.

their electronic instruments would be virtually useless in micovering our presence, since all but natural electropic activities were carefully eliminated from our apparetus, except electrophone receivers (which are not easily spotted), the Hims did have some vers highly sensitive sound devices which operated with great efficiency in salm weather, so far as sounds emanating from the air were concerned. But the

and cross in from of it.

Beaches of Tersey, we were not so spoossful in escaping observation. A Han slop came speeding along at a very low elevation. We cought it on our electronic location and direction finders, and also located it with

be carried out with all secrecy. clear of any appearance of human occupation, and a gun unit of long-range specialists was lowered with a dozen rocket guns, equipped with special automatic devices that the Resources Division had developed at my request, a few hours before our departure. These were aiming and timing devices. After calculating the range, elevation and rocket changes carefully, the guns were left, concealed in a raying, and the men were hanted up into the ship again. At the predetermined hour, those unmarried rocket criss would begin automatically to bornburd the Bad Bloods' hillsides, shifting their aim and elevation slightly with each shot, as did many of our artillery pieces in the First World War. In the meantime, we turned south about twenty miles. and grounded, waiting for the bombardment to begin before we attempted to speak across the Han ship lane. I was relying for security on the distraction that the bomberdment might furnish the Han observers. It was tense work waiting, but the affair went through as observed, our squadron drifting across the route high enough to enable the ships' tails of troops and supply cases to clear the ground. In crossing the second this mate out along the

But from the nature of the conversation, I judged they

had not identified it, and were, in fact, more curious

about the detorations they were nicking up now from

the Bad Blood lands some sorty miles or so to the

air again, and following much the same route that I

Immediately after this ship but shot by, we took the

to a halt and maintaleed their positions for a while

with the idling blasts of their rocket motors, to give

the oftwocope operators a chance to make a thorough

examination of the territory below us, for it was very

important that this next step in our program should

our ultroscores, but it came so fast and so low that I thought it best to remain where we had grounded the

second firms, and lie outer, rather than net moler way The point was this. While the Hans had no such

devices as our ultronoscopes, with which we could so in the dark (within certain limitations of concer) and

"pround roar" greatly confused their use of these instruments in the location of energic sounds floating

This ship must have caught some slight noise of ours, however, in its sensitive instruments, for we heard its electronic devices no into obry, and vicked no the routine report of the noise to its Base Ship Commander. ARMAGEDDON - 2419 A.D.

turned to me with the remark. the battle was evidently audible, and who were trying "The man circle is complete now, Boss. We've got to locate the trouble clear locations all the way around them." · "Let me see it." I replied, and studied the illuminated viewplate map, with its fittle overlapping circles of light that indicated spots proved clear of the enemy by ultrascopic observation. I nodded to Bill Hearn, "Go ahead now, Hearn," I said, "and place your barrage men."

He spoke into his ultraphone, and three of the shing becan to elide in a wide ring around the enemy territory. Every few seconds, at the word from his Unit Boss a minner would done off the wise and alienting the class of his chute case, drift down into the darkness below. Bill formed two lines, parallel to and facing the river, and enclosing the entire territory of the enemy between them. Allows and below, straddling the river, were two defensive lines. These latter were merely

lad taken the previous night, climbed in a long semi-

loar and short more run units. Then we held our

position until we began to set reports. Gradually we

ringed the territory of the Sinsings, our observation

units working busily and natiently at their locators.

and scores, both aloft and arround, until Garlin finally

to hold their positions. The others were to close in toward each other, pushing a high-explosive barrage five miles ahead of them. When the two harrages ract, both lines were to switch to short-vision-range

who rolete have drifted through the previous curtain of fire. In the meantime Bill kept his reserves, a picked corps of a hundred men (the same that had accompanied Hart and myself in our fieth with the Hand squadron) in the air, divided about equally among the "kite tails" of four ships. A final roll call, by units, companies, divisions and functions, established the fact that all our forces were in position. No Han activity was reported, and no

tion. Nor was there any Indication that the Singings had any knowledge of the fate in store for them. The idling of rep ray generators was reported from the center of their camp, obviously those of the ships the Hans had given them-the price of their freaton to

their race.

At this point, the swooner I had sent South toward the city west into action as a diversion, to keep the Hans at home. Its "kite tail" loaded with long-range gureers, using the most highly explosive rockets we had, hung invisible in the darkness of the sky and bornbarded the city from a distance of about five miles. With an entire city to shoot at, and the object of creating as suich commotion therein as possible regardless of actual damage, the gunners had no difficulty in hitting the mark. I could see the glow of the city and the stabbing flashes of exploding rockets. In the end, the Hans increasin as to what was point on, fell back

used explosives for many emerations, they preenthe-

less jumped at the conclusion that they were being

raided by the Hans. Their frantic broadcasts persisted

in this thought despite the persons electrophoric in-

quiries of the Hans themselves, to whom the sound of

Again I gave the word, and Hearn passed on the

on a defensive policy, and shot their "hell cylinder." or wall of upturned disintegrator rays into operation. That, of course, ended our bombardment of them. The rays were a perfect defense, disintegrating our rockets as they were reached If they had not sent out ships before turning on the rays, and if they had none within sufficient radius already in the air, all would be well. I queried Garlin on this, but he assured me Yellow Intelligence reported no indications of Han shins never than 800 miles. This would probably give us a free hand for a while, since most of their instruments reconfed only imperfectly or not at all, through the Requisitioning one of the viewplates of the headquarters ship, and the services of an expert operator,

Linemental him to form on our lines below. I wanted a close-on of the men in action. He becan to municulate his controls and chaotic shadows moved rapidly across the plate, fading in and out of focus, until he reached an adjustment that gave me a nicture of the forest floor, apparently 100 feet

wide, with the intervening branches and foliage of the trees appearing like shadows that melted into reality

a few feet above the ground. I watched one man setting up his long-oun with skillful speed. His tips pursed slightly as though be

were whistling, as he adjusted the tall triped on which many, stood around in tense attitudes, their belinet the long tube was balanced. Swiftly he twirled the phones strapped around their ears, nervosely finzering knobs controlling the aim and elevation of his piece. the tuning controls at their belts. Unquestionably they Then, lifting a belt of ammunition from the big box, must have located some of our fecouencies and overwhich beelf leoled beave excepts to brook down the heard many of our reports and orders. But they were spirally triped, he inserted the end of it in the lock of confused and disorganized. If they had an Ultrophone his take and touched the proper combination of bustons. Boss they evidently were not reporting to him in an Then he stepped aside, and occupied himself with arganized way peering carefully through the trees ahead. Not even a They were beginning to draw back now before our tremor shook the tube, but I knew that at intervals of advancing fire. With intermittent desperation, they something less than a second, it was discharging small began to shoot over our barrage again, and the exploprojectiles which, traveling under their own continusions of their rockets flashed at widely scattered points gosts reduced nower, were archive into the air, to fall beyond. A few took distance "pot shots. precisely five rufles ahead and explode with the force Oddly enough it was our own forces that suffered of eight-inch shells, such as we used in the First World the first casualties in the battle. Some of these distance shots by chance registered hits, while our men were Another curner, fifty feet to the right of him, waved under strict orders not to exceed their barrage distances. a hand and called our something to him. Then, picking Seen upon the ultroscope viewplate, the battle looked up his own tube and triped, he gauged the distance as though it were being fought in daylight, perhaps on between the trees ahead of him, and the height of a cloudy day, while the explosions of the rockets antheir lowest branches, and bending forward a bit, peared as flashes of extra brilliance flexed his muscles and leaped lightly, some twenty-five The two barrage lines were not more than five hunfeet. Another lesp took him another twenty feet or so, dred feet apart when the Sinsings resceted to tactice where he began to set up his riece. we had not foreseen. We noticed first that they begun I ordered my observer then to switch to the barrage to lighten themselves by throwing away extra equipitself. He got a close focus on it, but this showed ment. A few of them in their excitement threw awily too much, and shot suddenly into the air. Then a little except a continuous series of blinding floshes. which, from the viewplate, lit up the entire interior of scattering few floated up gently, followed by increasing the ship. An eight-hundred-foot focus proved better. numbers, while still others, preserving a weight bal-I had thought that some of our French and American soce, jumped toward the closing barrages and leared artillers of the 20th Century had achieved the ultimate high, hoping to clear them. Some succeeded. We in mathematical precision of fire, but I had never seen saw others blown about like leaves in a windstorm, anything to equal the accuracy of that line of terrific to crumple and drift slowly down, or else to fall into explosions as it moved steadily forward, mowing down the barrage, their belts blown from their bedies. tyres as a seethe cuts grass (or used to 500 years are). However, it was not part of our plan to allow a literally churning up the earth and the splintered, single one of them to escape and find his way to the hissed remains of the forest giants, to a depth of from Hans. I quickly passed the word to Bitl Heave to have the alternate men in his line raise their barrages By now the two curtains of fire were nearing each and heard him back out a mathematical formula to the other, lines of vibrant, shimmering, continuous, bril-Unit Bosses. liant destruction, inevitably squeezing the panic-stricken We backed off our ships as the explosions climbed Similary between them. into the air in stagger formation until they reached a Even as I watched, a group of them, who had been height of three miles. I don't believe any of the making a futile effort to get their there ero ray em-Strongs who tried to float away to freedom succeeded. chines into the air, abundaned their efforts, and nished But we did know later, that a few who leaned the

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forth into the milling mab. barrage got away and ultimately reached No-vok. I queried the Control Boss sharply on the futfity of It was those who managed to jump the barrage who this attempt of theirs, and learned that the Hans, gave us the most trouble. With half of our long-gues

superently in doubt as to what was coine on, had turned aloft. I foresaw we would not have enough to continued to "play safe," and broken off their power establish successive ground barrages and so ordered the broadcast, after ordering all their own ships East of barrage back two miles, from which positions our "curthe Allerbenies to the ground, for fear these ships they tairs" began to close in again, this time, however, had traded to the Sinsings might be used arginst them. gauged to explode, not on contact, but thirty feet in Again I turned to my viewplate, which was still

the air. This left little chance for the Sensings to focused on the crotral section of the Stesing works lean either over or under it. The confusion of the traitors was entirely that of Gradually, the two lorrages approached each other fear, for our barrage had not yet reached them. until they finally met, and in the grey dawn the battle

Some of them set on their languouss and fired at

random over the barrage line, then gave it up. They Our own casualties amounted to forty-seven men in the ground forces, eighteen of whom had been shire in hand to hand fighting with the few of the energy

crew and "kite tail" force of swooper No. 4, which had

realized that they had no tarrest to shoot at, no way of knowing whether our gunners were a few hundred feet or several miles beyond it. who managed to reach our lines, and sixty-two in the

Their altrophene men, of whom they did not have

brought down with long-our fire. Since nearly every member of the Singles Gand had so for as we knew been killed, we considered the raid

a front success. It had bourser a far greater significance than this To all of us who took over in the expedition, the

effectiveness of our harrage tactics definitely established a confidence in our shiften to concrome the Harm

As I recented out to Wilms "It has been my belief all along, dear, that the American explosive rocket is a far more efficient weap

on than the disinterrator ray of the Hans, once we can train all our eases to use it austematically and in co-ordinated fashion. As a weapon in the hands of a dorte individual, shooting at a mark in direct line of vision, the rocket-run is inferior in destructive nower to the dis ray exerct as its rance may be a simigreater. The trouble is that to date it has been used only as we need our rifles and shot sums in the 20th Century. The possibilities of its use as artillery, in

"The elic var incestably remails its source of econotion. The rocket man does not. The dis yay can crach its target only in a straight five. The rocket may be made to travel in an arr over intervening clatholes to

"Mor must we forget that our ultrovists now are reference of a seriest shield against the dis year in

"I tremble though. Tony dear, when I think of the harmen that are alread of as. The Harm are clear They will develop defenses against our new tactics

And they are sure to mass against us not only the full e of their sower in America, but the united forces of the World Exmire. They are a countilly race in inheritors of a culm methics, virious persistency."

me sense, but clever as the very Devils in Hell, and "Nevertheless." I prophesied, "the Pincer of Doorn counts squarely at them today, and unless you and I are killed in the straggle, we shall live to see America

blast the Yellow Blieft from the face of the Earth."